BELKIN®

Message Manager

Save money by making calls over your broadband Internet connection

User Manual

F1PG111EN

Table of Contents

Introduction

Thank you for purchasing the Belkin Message Manager (the Message Manager). This User guide provides instructions for installing and configuring the Message Manger. In minutes you will be able to lift up your phone and make phone calls to anywhere in the world using your broadband Internet connection. The following is a list of features that make your new Message Manager an ideal solution for your home or small office network.

Key Features

Easy Install Wizard

The Easy Install Wizard takes the guesswork out of setting up your Message Manager. This automatic software determines your network settings for you and sets up the Message Manager for connection to your Internet Service Provider (ISP). In a matter of minutes, your Message Manager will be up and running on the Internet.

NOTE: Easy Install Wizard software is compatible with Windows 98SE, Me, 2000, XP. If you are using another operating system, the Message Manager can be set up using the Alternative Method described in this manual.

Voice over Internet Phone dialing

New and exciting technology that allows you to place calls over your existing broadband Internet connection, with the same quality and functionality as your standard telephone service.

Routing Capabilities

The Message Manager features an integrated 10/100Base-Tx Ethernet port that allows you to connect a switch or wired computers for all the advantages of networking. It makes sharing files and peripherals, such as hard drives, printers, CD-ROMs, DVDs-and more-easier than ever. The Message Manager offers advanced features for the highest level of flexibility. Using its firewall, the Message Manager protects your network from outside intrusions by hackers. Its IPSec pass-through allows you to work from another location using Virtual Private Networking (VPN). DMZ hosting lets you play accelerated games over the Internet.

Compatible with Both PCs and Mac® Computers

The Message Manager supports a variety of networking environments including Mac OS® 8.x, 9.x, X v10.x, Linux®, Windows® 95, 98, Me, NT®, 2000, and XP, and others. All that is needed is an Internet browser and a network adapter that supports TCP/IP (the standard language of the Internet).

Front-Panel LED Display

Lighted LEDs on the front of the Message Manager indicate which functions are in operation. You'll know at-a-glance whether your Message Manager is connected to the Internet. This feature eliminates the need for advanced software and status-monitoring procedures.

Web-Based Advanced User Interface

You can set up the Message Manager's advanced functions easily

through your web browser, without having to install additional software onto the computer. There are no disks to install or keep track of and, best of all, you can make changes and perform setup functions from any computer on the network quickly and easily.

NAT IP Address Sharing
Your Message Manager employs Network Address Translation (NAT) to share the single IP address assigned to you by your Internet Service Provider while saving the cost of adding additional IP addresses to your Internet service account.

Router Features

SPI Firewall
Your Message Manager is equipped with a firewall that will protect your network from a wide array of common hacker attacks including IP Spoofing, Land Attack, Ping of Death (PoD), Denial of Service (DoS), IP with zero length, Smurf Attack, TCP Null Scan, SYN flood, UDP flooding, Tear Drop Attack, ICMP defect, RIP defect, and fragment flooding.

Integrated Ethernet Port
The Message Manager has a built-in, Ethernet Port to allow you to connect a computer, a network switch or a wireless to share printers, data and MP3 files, digital photos, and much more. The switch features automatic detection so it will adjust to the speed of connected devices. The switch will transfer data between computers and the Internet simultaneously without interrupting or consuming resources.

Universal Plug-and-Play (UPnP) Compatibility
UPnP (Universal Plug-and-Play) is a technology that offers seamless operation of voice messaging, video messaging, games, and other applications that are UPnP-compliant.

Support for VPN Pass-Through
If you connect to your office network from home using a VPN connection, your Message Manager will allow your VPN-equipped computer to pass through the Message Manager and to your office network.

Built-In Dynamic Host Configuration Protocol (DHCP)
Built-In Dynamic Host Configuration Protocol (DHCP) on-board makes for the easiest possible connection of a network. The DHCP server will assign IP addresses to each computer automatically so there is no need for a complicated networking setup.

Calling Features

Belkin callEverywhere™ to Belkin callEverywhere™ Calling

All calls placed between a Belkin callEverywhere subscriber and any other current Belkin callEverywhere subscriber is absolutely FREE and does not count against your monthly minutes. This allows friends and family to gain additional savings. It's perfect for long distance or International users who want to talk for as long as they want.

Note: Requires both callers to have a current Belkin callEverywhere subscription.

Benefits of Message Manager

- Call to any local number or long distance throughout the US and Canada with callEverywhere service.
- Easy dialing. The dialing format for your Message Manager is the same as with your standard POTS line (Plain Old Telephone Service).
- Low cost
- Personal storage
- Choose any Phone Number
- Unified Messaging
- Easy to use
- No Commitment

International Calling Rates

- Add international calling capabilities to make calls throughout the world.
- One phone provides all of the functionality of your local phone service.
- Pick up the phone and dial 011-(3 digit country code)-phone number.
- Review your Broadband Phone Service plan to see how many minutes your account is limited to: 500, 1000, or is unlimited.

  Note: The Message Manager requires you to register with our service.

For more information regarding this product visit our website at **www.everywhere.net** or call us at **888-542-2207**.

Knowing Your Belkin Message Manager

Package Contents

- Message Manager
- RJ45 Ethernet Networking Cable
- RJ11 Phone Cord
- 12V Power Supply
- Easy Install Wizard Software CD
- User Manual
- Quick Installation Guide
- Voice Feature overview
- Warranty Card
- Registration Card

System Requirements

- Broadband Internet connection such as a cable or DSL modem with RJ45 (Ethernet) connection
- At least one computer with an installed network interface adapter
- TCP/IP networking protocol installed on each computer
- RJ45 Ethernet networking cable
- Internet browser
- One Telephone handset

Easy Install Wizard Software System Requirements

- A PC running Windows 98SE, Me, 2000, or XP
- Minimum 64MB RAM
- Internet Browser

Specifications:

Standards

IEEE 802.3u 10/100Base-Tx Fast Ethernet (WAN &LAN)

Protocol Supported

SIP, CSMA/CD, TCP/IP, UDP, PPPoE, DHCP (client and server)

VPN Support

PPTP, IPSec pass-Through

Voice Compression

G.711, G.729

Management

Browser Based User Interface

Ports

1 10/100Base-Tx auto sensing RJ-45 Port, WAN

1 10/100Base-Tx auto sensing RJ-45 Port, LAN

1 FXS Voice Port (Telephone)

1 FXO Phone Line Pass thru (Line)

LEDs

Network: WAN, LAN

Voice: Telephone, Line

Message: Voicemail, Email, Fax

Dimensions and Weight

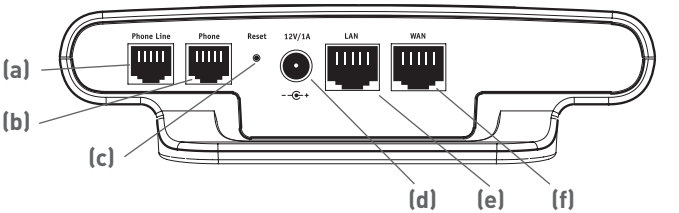
176mm x 129mm x 45mm

10oz.

Power

12VDC, 1 A

The Message Manager was designed to be placed on a desktop next to your telephone or mounted to a wall. All of the cables exit from the rear of the Message Manager for better organization and utility. The LED indicators are easily visible on the front of the Message Manager to provide you with information about your call and network activity and status.



(a) FXO (POTS) Phone

This port is for connection to your existing Phone Line. Use an RJ-11 cable to connect to and exiting PSTN analog telephone service. It is recommended you connect this port to provide 911 emergency support and in the rare case that your Broadband service or electricity go down.

(b) FXS (TEL) Phone Line

This port is for connection to your telephone Handset. Use the RJ-11 cable that was provided with the Message Manager to connect the telephone to this port.

(c) Reset Switch

The “Reset” button is used in rare cases when the Message Manager may function improperly. Resetting the Message Manager will restore the Message Manager’s normal operation while maintaining the programmed settings. You can also restore the factory default settings by using the Reset button. Use the restore option in instances where you may have forgotten your custom password.

1. Resetting the Belkin Message Manager
Push and release the Reset button. The lights on the Belkin Message Manager will momentarily flash while the unit reboots.

2. Restoring the Factory Defaults
Press and hold the Reset button for at least five seconds then release it. The lights on the Message Manager will momentarily flash while the unit reboots.

(d) LAN port

Connect your wired (non-wireless) computers to this port or use it to connect a wireless Access Point. This port is RJ45, 10/100 auto-negotiation, auto-uplinking ports for standard UTP category 5 or 6 Ethernet cable. This port corresponds to the LAN LED on the front of the Message Manager.

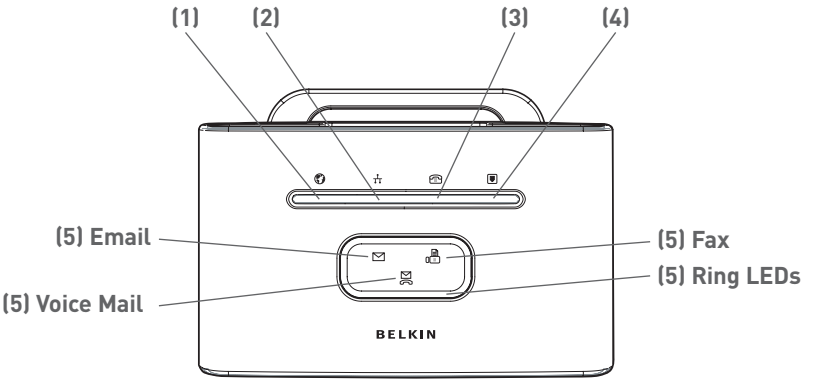
(e) WAN port

This port is for connection to your cable or DSL modem. Use the cable that was provided with the Message Manager to connect the modem to this port. Or you may use it to connect to your existing router setup. Use of a cable other than the cable supplied may not work properly.

(f) Power Jack

Connect the included 12V DC, 1A power supply to this jack.

Knowing Your Belkin Message Manager



When you apply power to the Message Manager or restart it, a short period of time elapses while the Message Manager boots up (about 30 seconds). During this time, you will see all the LED flash on then off. When the Message Manager has completely booted up, the LEDs will light, indicating the Message Manager is ready for use.

1. WAN LED

This LED lights in GREEN to indicate that your modem is connected properly to the internet. It blinks rapidly when information is being sent over the port between the Message Manager and the modem.

Solid Green	Internet is connected; Phone service is registered
Blinking Green	Internet is connected; Phone service is registered
Solid Amber	Router is Ready

2. LAN Port Status LED

This LED lights in GREEN to indicate that your modem is connected properly to the internet. It blinks rapidly when information is being sent over the port between the Message Manager and the modem.

Solid Green	Cable is connected
Blinking Green	Data Traffic
Solid Amber	Cable is not connected

3. FXS LED

This LED lights in GREEN when you go off hook to indicate that your Message Manager is ready to make or accept a call. It blinks rapidly voice data is being sent over the phone and through the Message Manager .

Solid Green	Phone is off hook
Blinking Green	Voice Traffic
Solid Amber	Phone is on hook

4. FXO LED

This LED lights in GREEN when you connect the Belkin Message Manager to a telephone line. The LED lights in RED when there is no Telephone line connection. This notifies the user that 911 Emergency calls are not supported.

Red On	No cable connected for 911 calling
Green On	Cable connected for 911 calling

5. Message Wait Indicator Lights (MWI)

The message wait indicator lights are a quick and easy way to check for new messages. The LED lights in GREEN when you have a message waiting in your mailbox. The LED lights in the ring around the Message LED light AMBER when you have an urgent message.

Email MWI	Green On	New Email message waiting in Inbox
Fax MWI	Green On	New Fax message waiting in Inbox
Voice Mail MWI	Green On	New Voice message waiting in Inbox
	Amber on	Urgent message waiting
Ring LEDs	Green Rotation	VoiP Call ringing
	Amber Rotation	PSTN call ringing

Modem Requirements
Your cable or DSL modem must be equipped with an RJ45 Ethernet port. Many modems have both an RJ45 Ethernet port and a USB connection. If you have a modem with both Ethernet and USB, and are using the USB connection at this time, you will be instructed to use the RJ45 Ethernet port during the installation procedure. If your modem has only a USB port, you can request a different type of modem from your ISP, or you can, in some cases, purchase a modem that has an RJ45 Ethernet port on it.


Ethernet


USB

IMPORTANT: Run the Easy Install Wizard from the computer that is directly connected to the cable or DSL modem. DO NOT CONNECT THE MESSAGE MANAGER AT THIS TIME.

ALWAYS INSTALL YOUR MESSAGE MANAGER FIRST! IF YOU ARE SETTING UP YOUR NETWORK FOR THE FIRST TIME, IT IS IMPORTANT THAT YOUR MESSAGE MANAGER IS CONNECTED AND RUNNING BEFORE ATTEMPTING TO INSTALL OTHER NETWORK COMPONENTS SUCH AS NOTEBOOK CARDS AND DESKTOP CARDS.

Determining your current Network and Connection

The Message Manager can function as your primary gateway/router or as a client in an existing network configuration.

For example, if you currently have broadband access and a gateway/router installed in your location you may add the Message Manager as a client to you network.

If you currently have broadband and do not have a router, then you may install your Message Manager as the primary router for your network.

This is the simplest and fastest method to install your Message Manager.

Connecting your Message Manager to a Router/Gateway

Option 1 – Installing the Message Manger as a client to a router that already exists. (Select this option if you already have a router connected to your cable/DSL broadband modem.)

1. Identify an available LAN port on your exiting router or home gateway.
2. Using the Cat-5 Ethernet cable that is included with your Message Manager, take one end of the Cat-5 cable and connect it to the available LAN port on your Router. Connect the opposite end to the WAN port on the Message Manager.
3. Connect a standard analog phone to the Phone Port of the Message Manager. You may also connect the Message Manager to your Telephone line if desired. This is optional and is not required.
4. Locate the power supply that is included with your Message Manager. Plug the power supply's small connector into the DC power jack the Message Manager. Plug the power supply into an empty power outlet.
5. The Message Manager automatically connects to the Internet. The WAN LED will blink green to indicate that there is and Internet connection.
6. Wait up to 5 minutes while the Belkin Message Manager automatically registers to the Belkin callEverywhere center.
7. Once a connection to our callEverywhere center is established, the phone connected the Message Manager will ring confirming a connection was established.
8. Answer the call and follow the on-phone instructions. You will be directed to go to the following website to sign up for your service: **www.everywhere.net**

Connecting your Message Manager to a Router/Gateway

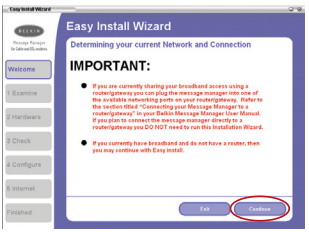
Option 2 - Installing the Belkin Message Manger as the Primary router in your Network (recommended). (Select this method if your cable/DSL modem is currently connected directly to your computer)

Easy Install Wizard

Belkin has provided the Easy Install Wizard software to make installing your Message Manager a simple and easy task. You can use it to get your Message Manager up and running in minutes. The Easy Install Wizard requires that your Windows 98 SE, Me, 2000, or XP computer be connected directly to your cable or DSL modem and that the Internet connection is active and working at the time of installation. If it is not, you must use the "Alternate Setup Method" section of this manual to configure your Message Manager. Additionally, if you are using an operating system other than Windows 98 SE, Me, 2000, or XP, you must set up the Message Manager using the "Alternate Setup Method" section of this manual.

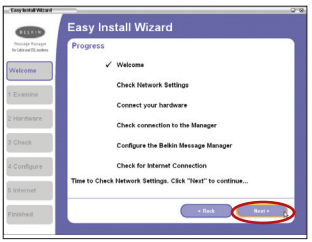
Step 1 | Run the Easy Install Wizard Software

1. Shut down any programs that are running on your computer at this time.
2. Make sure you have the following items at the computer that is now directly connected to the cable or DSL modem. DO NOT CONNECT THE MESSAGE MANAGER AT THIS TIME.
   - The Message Manager
   - The Easy Install Wizard CD-ROM
   - The power supply
   - RJ45 Ethernet networking cable
   - This User Manual
3. Turn off any firewall or Internet connection sharing software on your computer.
4. Insert the Easy Install Wizard software CD into your CD–ROM drive. The Easy Installation Wizard screen will automatically appear on your screen within 15 seconds. If it does not, select your CD-ROM drive from "My Computer" and double-click on the file named "Setup.exe" on the CD-ROM.



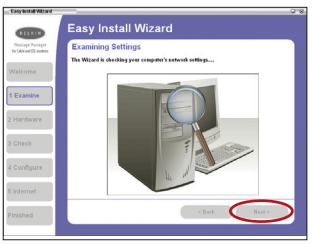
Welcome Screen

After you insert the CD into your CD-ROM drive, the Wizard's welcome screen will appear. Make sure you have not connected the Message Manager at this point. If you have connected your Message Manager, please reconnect your computer directly to the modem. Click "Next" when you are ready to move on.



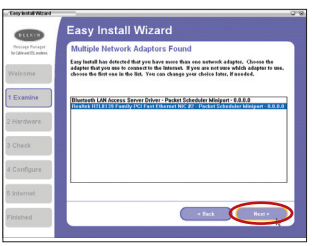
Progress Screen

Easy Install will show you a progress screen each time a step in the setup has been completed. Each time you see the progress screen, click "Next" when you are ready to move to the next step.



Examining Settings

The Wizard will now examine your computer's network settings and gather information needed to complete the Message Manager's connection to the Internet. When the Wizard is finished examining your computer, click "Next" to continue.

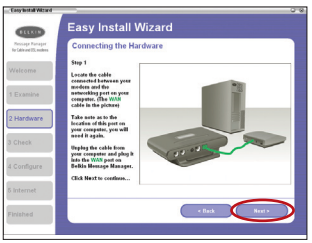


Multi-NICs Screen

If you have more than one network adapter installed in your computer a Multi-NIC Screen will appear. If you have more than one network adapter installed in your computer, the Wizard will need to know which adapter is connected to your modem. Select the network card that is connected to your modem from the list and click "Next". If you are not sure which adapter to choose, select the adapter at the top of the list. If you mistakenly choose the wrong adapter now, you will be able to choose a different one later.

Step 2 | Hardware Setup

The Wizard will walk you through connecting your Message Manager to your computer and modem. Follow the steps on the screen using the pictures as a guide.



2.1 This step instructs you to locate the cable connected between your modem and the networking port on your computer. Unplug this cable from the computer and plug it into the WAN port on the Message Manager. Click “Next” to continue.

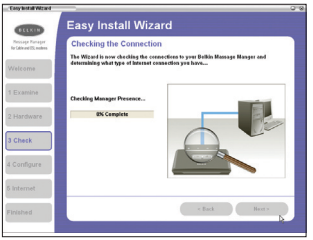
2.2 This step instructs you to locate the Cat-5 Ethernet cable that is included with your Message Manager. Plug one end of this cable into the LAN port on your Message Manager. Plug the other end of the cable into the networking port on your computer. Click “Next” to continue.

2.3 This step instructs you to connect your analog phone to Phone Port of your Message Manager. Plug the Phone line from your wall outlet to the Phone Line Port on the Message Manager. Click “Next” to continue.

2.4 This step instructs you to locate the power supply that is included with your Message Manager. Plug the power supply's small connector into the power jack on the Message Manager. Plug the power supply into an empty power outlet. Click "Next" to continue.

2.5 This step instructs you to look at the lights on the front of your Message Manager. Make sure the appropriate lights are ON. Refer to the Easy Install software on your computer's screen for more details. Click "Next" to continue.

Step 3 | Checking the Connection



3.1 Once you have completed connecting the Message Manager, the Wizard will check the connection to the Message Manager and then go on to determine what type of Internet connection you have.

3.2 User Name and Password Needed
If you have a connection type that requires a user name and a password, the Wizard will ask you to type in your user name and password. If your connection type does not require a user name and password, you will not see this screen.

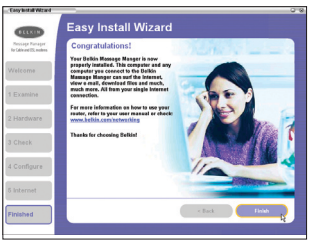
Your user name and password is provided to you by your Internet Service Provider. If you have to type in a user name and password to connect to the Internet, then type that same user name and password in here. Your user name looks something like “jsmith@myisp.com” or simply “jsmith”. The service name is optional and is very rarely required by your ISP. If you don’t know your service name, leave this blank. When you have entered your information, click “Next” to move on.

Step 4 | Configuring the Message Manager

4.1 The Wizard will now transfer all of the configuration information to the Message Manager. This will take approximately one minute. During this time, do not turn off the Message Manager or computer. The Message Manager will restart itself at the end of this step.

4.2 Checking Internet

The Wizard will now check for an Internet connection. This can take a few minutes. The Wizard may not detect a connection right away. If not, it will retry a number of times. The "Connected" light on the front panel of the Message Manager will flash during this time. Please be patient through this process.



4.3 Finished

When the Internet connection is complete, the Wizard will tell you that you are finished. The "WAN" LED on the front of the Message Manager will be solid GREEN, indicating that the Message Manager is now connected to the Internet.

Wait up to 5 minutes while the Message manager automatically registers to the callEverywhere center. The phone connected to the Message Manager will ring, confirming a connection was established. Answer the call and follow the on-phone instructions. You will be directed to go to **www.everywhere.net** to sign up for your service.

Note: if you do not receive a call, check whether your Internet settings are correct. The Message Manager is pre-configured to obtain an IP address automatically through DHCP. Verify that your DHCP function is enabled.

Congratulations! You have finished installing your new Message Manager!.

Alternate Setup Method

The Advanced User Interface is a web-based tool that you can use to set up the Message Manager if you don't want to use the Easy Install Wizard. You can also use it to manage advanced functions of the Message Manager. From the Advanced User Interface, you can perform the following tasks:

- View the Message Manager's current settings and status.
- Configure the Message Manager to connect to your ISP with the settings that they provided you.
- Change the current network settings such as the Internal IP address, the IP address pool, DHCP settings and more.
- Set the Message Manager's firewall to work with specific applications (port forwarding).
- Set up security features such as client restrictions, and MAC address filtering.
- Enable the DMZ feature for a single computer on your network.
- Change the Message Manager's internal password.
- Enable/Disable UPnP (Universal Plug-and-Play).
- Reset the Message Manager.
- Back up your configuration settings.
- Reset the Message Manager's default settings.
- Update the Message Manager's firmware.

Step 1 | Connecting your Message Manager

1.1 Turn off the power to your modem by unplugging the power supply from the modem.

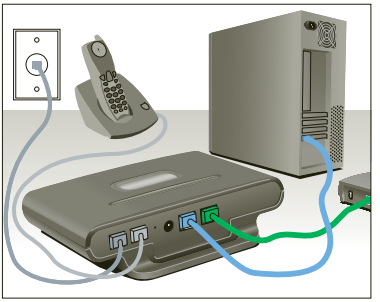
1.2 Locate the network cable that is connected between your modem and your computer and unplug it from your computer, leaving the other end connected to your modem.

1.3 Plug the loose end of the cable you just unplugged into the port on the back of the Message Manager labeled "WAN".

1.4 Connect a new network cable (not included) from the back of the computer to one of the ports labeled "LAN".

1.5 Connect a standard analog phone to the phone port. You may also connect the Message Manager to your telephone line, if desired.

Alternate Setup Method



1.6 Turn your cable or DSL modem on by reconnecting the power supply to the modem.

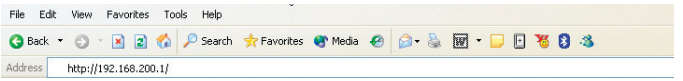
1.7 Before plugging the power cord into the Message Manager, plug the cord into the wall, then plug the cord into the Message Manager's power jack.

1.8 Verify that your modem is connected to the Message Manager by checking the lights on the front of the Message Manager. The light labeled "WAN" should be ON and blinking green if your modem is connected correctly to the Message Manager. If it is not, recheck your connections.

1.9 Verify that your computer is connected properly to the Message Manager by checking that the lights labeled "LAN" is green. If it is not, recheck your connections.

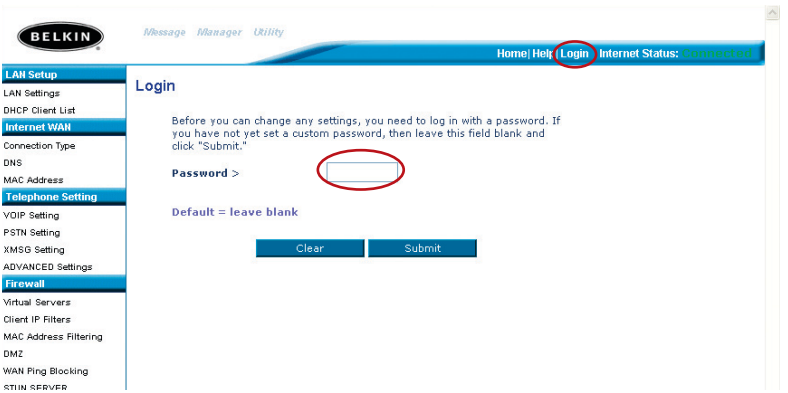
Step 2 | Configuring the Router Using the Web-Based Advanced User Interface

Using your Internet browser, you can access the Message Manager's Web-Based Advanced User Interface. In your browser, type "192.168.200.1" (you do not need to type in anything else such as "http://" or "www"). Then press the "Enter" key.



Logging into the Message Manager

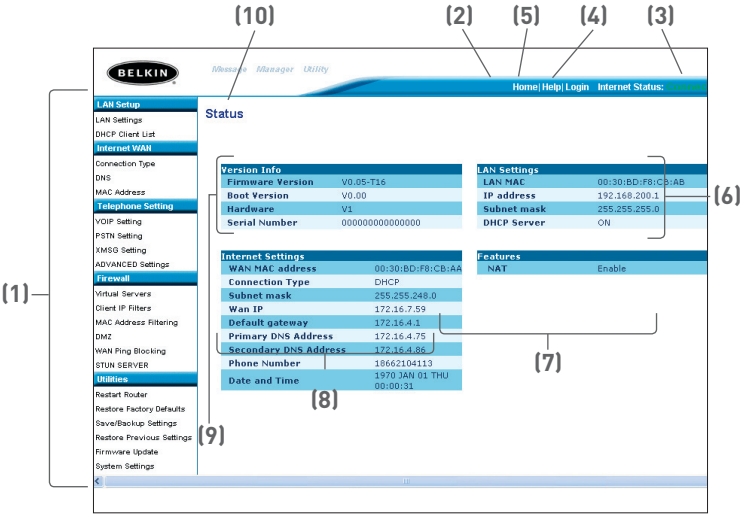
You will see the Message Manager's home page in your browser window. The home page is visible to any user who wants to see it. To make any changes to the Message Manager's settings, you have to log in. Clicking the "Login" button or clicking on any one of the links on the home page will take you to the login screen. The Message Manager ships with no password entered. In the login screen, leave the password blank and click the "Submit" button to log in.



Logging out of the Message Manager
One computer at a time can log in to the Message Manager for the purposes of making changes to the settings of the Message Manager. Once a user has logged in to make changes, there are two ways that the computer can be logged out. Clicking the “Logout” button will log the computer out. The second method is automatic. The login will time out after a specified period of time. The default login timeout is 10 minutes. This can be changed from 1 to 99 minutes in “Changing System Settings”, page 52, of this manual, under “Login Timeout”.

Understanding the Web-Based Advanced User Interface

The home page is the first page you will see when you access the Advanced User Interface (UI). The home page shows you a quick view of the Message Manager's status and settings. All advanced setup pages can be reached from this page.



1. **Quick-Navigation Links**
   You can go directly to any of the Message Manager's advanced UI pages by clicking directly on these links. The links are divided into logical categories and grouped by tabs to make finding a particular setting easier to find. Clicking on the purple header of each tab will show you a short description of the tab's function.

2. **Home Button**
   The home button is available in every page of the UI. Pressing this button will take you back to the home page.

3. **Internet Status Indicator**
   This indicator is visible in all pages of the Message Manager, indicating the connection status of the Message Manager. When the indicator says "Connected" in GREEN, the Message Manager is connected to the Internet. When the Message Manager is not connected to the Internet, the indicator will read "Not Connected" in RED. The indicator is automatically updated when you make changes to the settings of the Message Manager.

4. **Login/Logout Button**
   This button enables you to log in and out of the Message Manager with the press of one button. When you are logged into the Message Manager, this button will change to read “Logout”. Logging into the Message Manager will take you to a separate login page where you will need to enter a password. When you are logged in to the Message Manager, you can make changes to the settings. When you are finished making changes, you can log out of the Message Manager by clicking the “Logout” button. For more information about logging into the Message Manager, see the section called “Logging into the Message Manager”.

5. **Help Button**
   The “Help” button gives you access to the Message Manager’s help pages. Help is also available on many pages by clicking “more info” next to certain sections of each page.

6. **LAN Settings**
   Shows you the settings of the Local Area Network (LAN) side of the Message Manager. Changes can be made to the settings by clicking on any one of the links (IP Address, Subnet Mask, DHCP Server) or by clicking the “LAN” Quick Navigation link on the left side of the screen.

7. **Features**
   Shows the status of the Message Manager’s NAT, firewall, and wireless features. Changes can be made to the settings by clicking on any one of the links or by clicking the “Quick Navigation” links on the left side of the screen.

8. **Internet Settings**
   Shows the settings of the Internet/WAN side of the Message Manager that connects to the Internet. Changes to any of these settings can be made by clicking on the links or by clicking on the “Internet/WAN” Quick Navigation link on the left side of the screen.

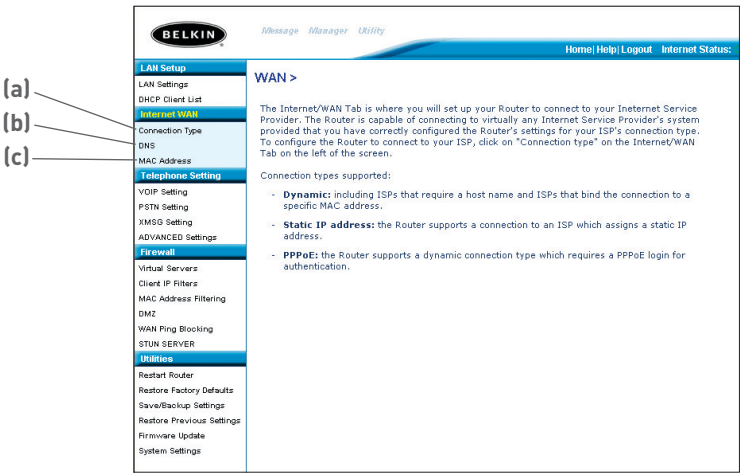
9. **Version Info**
   Shows the firmware version, boot-code version, hardware version, and serial number of the Message Manager.

10. **Page Name**
    The page you are on can be identified by this name. This manual will sometimes refer to pages by name. For instance “LAN>LAN Settings” refers to the “LAN Settings” page.

Step 4 Configuring your Message Manger for Connection to your Internet Service Provider (ISP)

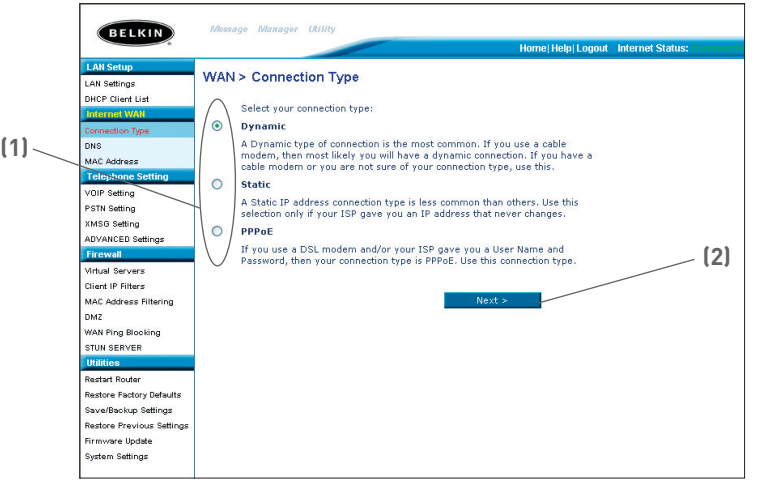
The “Internet/WAN” tab is where you will set up your Message Manager to connect to your Internet Service Provider (ISP). The Message Manager is capable of connecting to virtually any ISP’s system provided you have correctly configured the Message Manager’s settings for your ISP’s connection type. Your ISP connection settings are provided to you by your ISP. To configure the Message Manager with the settings that your ISP gave you, click “Connection Type” **(a)** on the left side of the screen. Select the connection type you use. If your ISP gave you DNS settings, clicking “DNS” **(b)** allows you to enter DNS address entries for ISPs that require specific settings. Clicking “MAC address” **(c)** will let you clone your computer’s MAC address or type in a specific WAN MAC address, if required by your ISP. When you have finished making settings, the “Internet Status” indicator will read “Connected” if your Message Manager is set up properly.

Setting your Connection Type



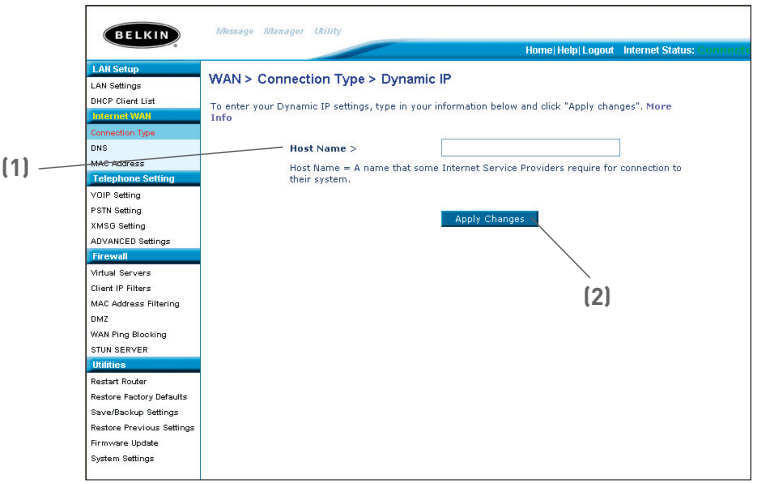
Alternate Setup Method

From the connection type page, you can select the type of connection you use. Select the type of connection you use by clicking the button **(1)** next to your connection type and then clicking “Next” **(2)**.



Setting your Internet Service Provider (ISP) Connection Type to Dynamic IP

A dynamic connection type is the most common connection type found with cable modems. Setting the connection type to “dynamic” in many cases is enough to complete the connection to your ISP. Some dynamic connection types may require a host name. You can enter your host name in the space provided if you were assigned one. Your host name is assigned by your ISP. Some dynamic connections may require that you clone the MAC address of the PC that was originally connected to the modem.

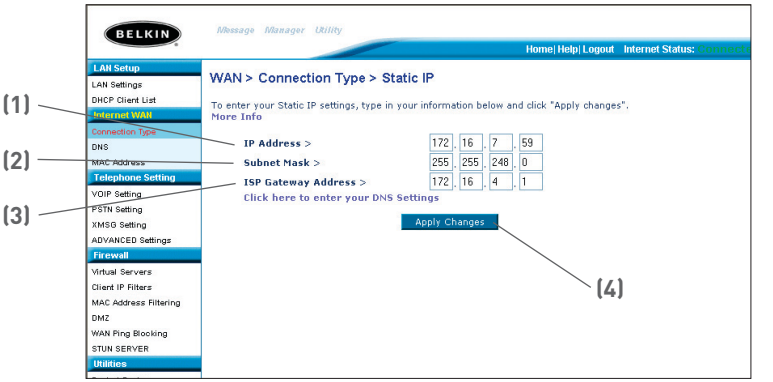


This space is provided to enter a host name that needs to be visible to your ISP **(1)**. Enter your host name here and click “Apply Changes” **(2)**. If your ISP did not assign you a host name, or you are not sure, leave this blank.

If your ISP requires a specific MAC address to connect to the service, you can enter a specific MAC address or clone the current computer’s MAC address through this link.

Setting your Internet Service Provider (ISP) Connection Type to Static IP

A static IP address connection type is less common than other connection types. If your ISP uses static IP addressing, you will need your IP address, subnet mask, and ISP gateway address. This information is available from your ISP or on the paperwork that your ISP left with you. Type in your information, then click “Apply Changes” **(5)**. After you apply the changes, the Internet Status indicator will read “Connected” if your Message Manager is set up properly.



A static IP address connection type is less common than other connection types. If your ISP uses static IP addressing, you will need your IP address **(1)**, subnet mask **(2)**, and ISP gateway address **(3)**. This information is available from your ISP or on the paperwork that your ISP left with you. Type in your information, then click “Apply Changes” **(4)**. After you apply the changes, the Internet Status indicator will read “connection OK” if your Belkin Message Manager is set up properly.

1. **IP Address**
   Provided by your ISP. Enter your IP address here.
2. **Subnet Mask**
   Provided by your ISP. Enter your subnet mask here.
3. **ISP Gateway Address**
   Provided by your ISP. Enter the ISP gateway address here.

Setting your Connection Type to PPPoE

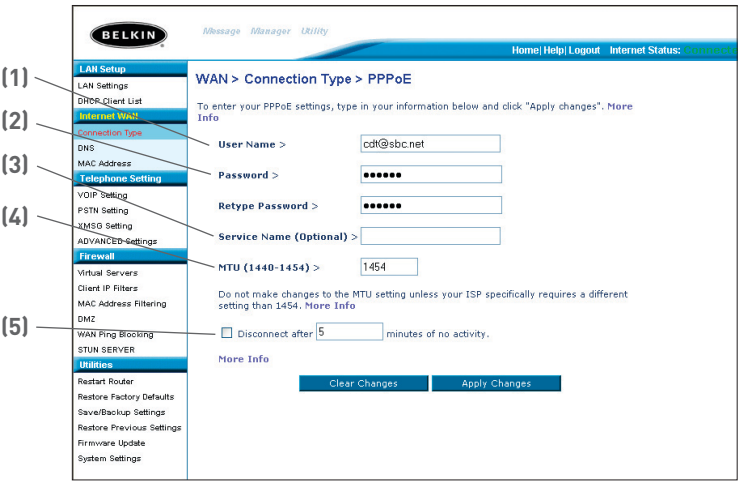
Most DSL providers use PPPoE as the connection type. If you use a DSL modem to connect to he Internet, your ISP may use PPPoE to log to into the service. If you have an Internet connection in your home or small office that does not require a modem you may also use PPPoE.

Use the following to determine whether your ISP has a PPPoE connection Type

a) Your ISP gave you a user name and password, which is required to connect to the Internet.

b) Your ISP gave you software such as WinPOET or Enternet300 that you use to connect to the Internet.

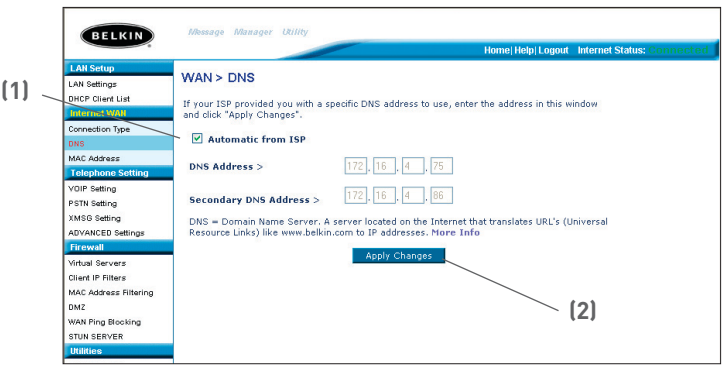
c) You have to double-click on a desktop Icon other than your browser to get on the Internet.



1. **User Name**
   This space is provided to type in you User Name that was assigned by your ISP.
2. **Password**
   Type in your password and retype it into the “Retype Password” box to confirm it.
3. **Service Name**
   A service name is rarely required by an ISP. If you are not sure if your SIP requires a service name, leave this blank.
4. **MTU**
   The MTU setting should never be changed unless your ISP gives you specific MTU setting. Making changes to the MTU stetting can cause problems with your Internet connection including disconnection from the Internet, slow Internet access and problems with Internet applications working properly.
5. **Disconnect after X...**
   The Disconnect feature is used to automatically disconnect the Message Manager from your ISP when there is no activity for a specified period of time. For instance, placing a check mark next to this option and entering 5 into the minute field will cause the router to disconnect from the Internet after 5 minutes of no Internet activity. This option should be use if you pay for you Internet service by the minute. Enabling this feature is not recommended. Losing the connection to the Internet can cause you to disconnect from your Voice service. As a result in-coming calls could be missed and outgoing calls can be affected.

Setting Custom Domain Name Server (DNS) Settings

A “Domain Name Server” is a server located on the Internet that translates Universal Resource Links (URLs) like “www.belkin.com” to IP addresses. Many ISPs do not require you to enter this information into the Message Manager. The “Automatic from ISP” box **(1)** should be checked if your ISP did not give you a specific DNS address. If you are using a static IP connection type, then you may need to enter a specific DNS address and secondary DNS address for your connection to work properly. If your connection type is dynamic or PPPoE, it is likely that you do not have to enter a DNS address. Leave the “Automatic from ISP” box checked. To enter the DNS address settings, uncheck the “Automatic from ISP” box and enter your DNS entries in the spaces provided. Click “Apply Changes” **(2)** to save the settings.



Configuring your WAN Media Access Controller (MAC) Address

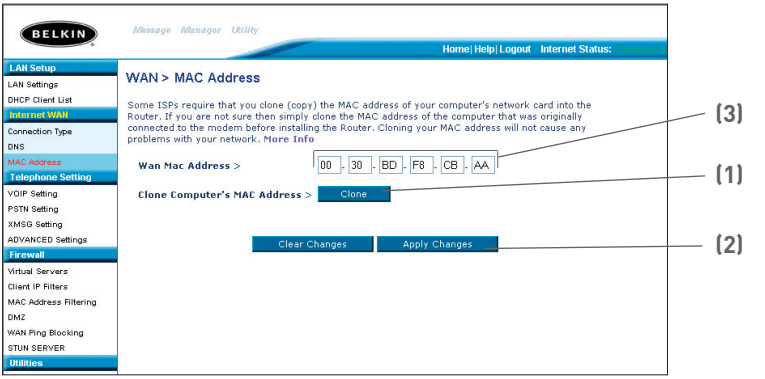
All network components including cards, adapters, and Message Managers, have a unique “serial number” called a MAC address. Your ISP may record the MAC address of your computer’s adapter and only let that particular computer connect to the Internet service. When you install the Message Manager, its own MAC address will be “seen” by the ISP and may cause the connection not to work. Belkin has provided the ability to clone (copy) the MAC address of the computer into the Message Manager. This MAC address, in turn, will be seen by the ISP’s system as the original MAC address and will allow the connection to work. If you are not sure whether your ISP needs to see the original MAC address, simply clone the MAC address of the computer that was originally connected to the modem. Cloning the address will not cause any problems with your network.

Cloning your MAC Address

To clone your MAC address, make sure that you are using the computer that was ORIGINALLY CONNECTED to your modem before the Message Manager was installed. Click the "Clone" button **(1)**. Click "Apply Changes" **(3)**. Your MAC address is now cloned to the Message Manager.

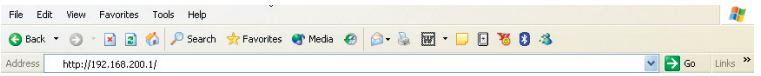
Entering a Specific MAC Address

In certain circumstances you may need a specific WAN MAC address. You can manually enter one in the "MAC Address" page. Type in a MAC address in the spaces provided **(2)** and click "Apply Changes" **(3)** to save the changes. The Message Manager's WAN MAC address will now be changed to the MAC address you specified.



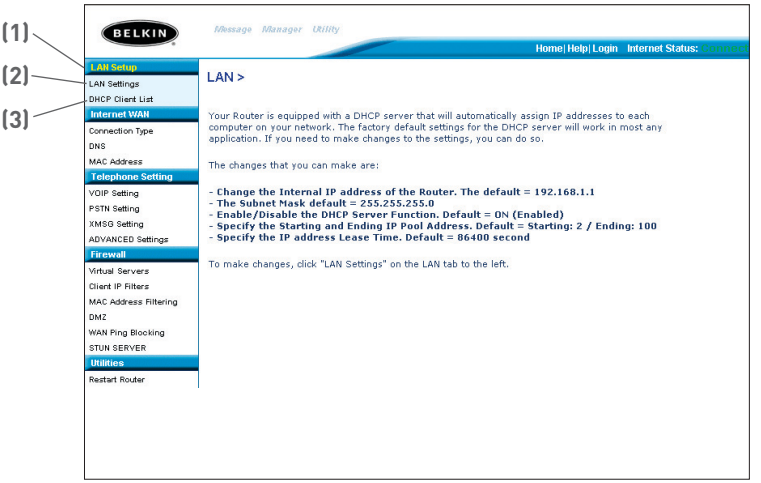
Using your Internet browser, you can access the Belkin Message Manager's Web-Based Advanced User Interface. In your browser, type "192.168.200.1" (do not type in anything else such as "http://" or "www") then press the "Enter" key.

You will see the Message Manager's home page in your browser window.



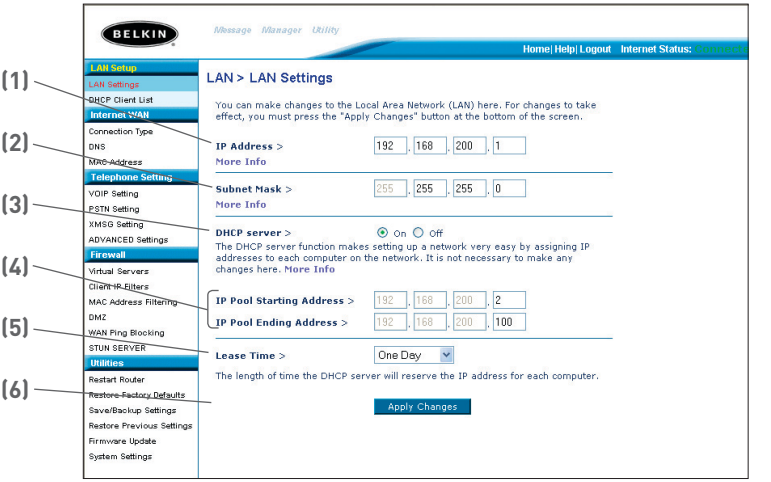
Viewing the LAN Settings

Clicking on the header of the LAN tab **(1)** will take you to the LAN tab's header page. A quick description of the functions can be found here. To view the settings or make changes to any of the LAN settings, click on "LAN Settings" **(2)** or to view the list of connected computers, click on "DHCP Client List" **(3)**.



Changing LAN Settings

All settings for the internal LAN setup of the Message Manager can be viewed and changed here.



1. **IP Address**
   The "IP address" is the internal IP address of the Message Manager. The default IP address is "192.168.200.1". To access the advanced setup interface, type this IP address into the address bar of your browser. This address can be changed if needed. To change the IP address, type in the new IP address and click "Apply Changes". The IP address you choose should be a non-routable IP. Examples of a non-routable IP are:
   192.168.x.x (where x is anything between 0 and 255)
   10.x.x.x (where x is anything between 0 and 255)

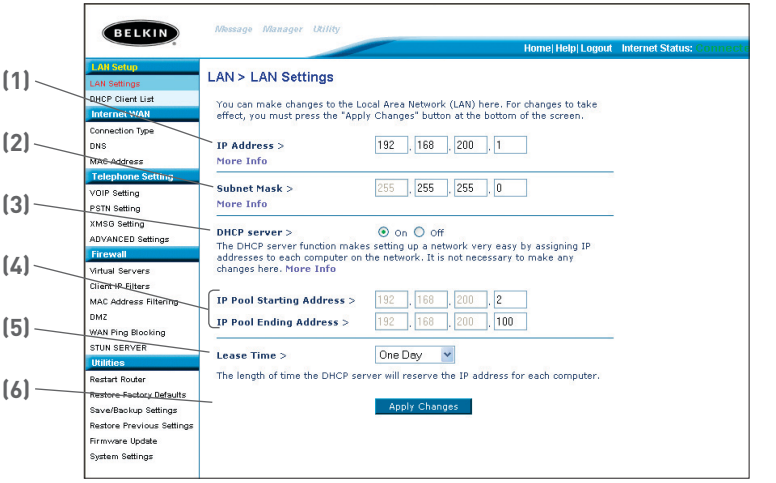
2. **Subnet Mask**
   There is no need to change the subnet mask. This is a unique, advanced feature of your Message Manager. It is possible to change the subnet mask if necessary, however, do NOT make changes to the subnet mask unless you have a specific reason to do so. The default setting is "255.255.255.0".

3. **DHCP Server**
   The DHCP server function makes setting up a network very easy by assigning IP addresses to each computer on the network automatically. The default setting is “On”. The DHCP server can be turned OFF if necessary, however, in order to do so you must manually set a static IP address for each computer on your network. To turn off the DHCP server, select “Off” and click “Apply Changes”.

4. **IP Pool**
   The range of IP addresses set aside for dynamic assignment to the computers on your network. The default is 2–100 (99 computers). If you want to change this number, you can do so by entering a new starting and ending IP address and clicking on “Apply Changes”. The DHCP server can assign 100 IP addresses automatically. This means that you cannot specify an IP address pool larger than 100 computers. For example, starting at 50 means you have to end at 150 or lower so as not to exceed the 100-client limit. The starting IP address must be lower in number than the ending IP address.

5. **Lease Time**
   The length of time the DHCP server will reserve the IP address for each computer. We recommend that you leave the lease time set to “Forever”. The default setting is “Forever”, meaning that any time a computer is assigned an IP address by the DHCP server, the IP address will not change for that particular computer. Setting lease times for shorter intervals such as one day or one hour frees IP addresses after the specified period of time. This also means that a particular computer’s IP address may change over time. If you have set any of the other advanced features of the Message Manager such as DMZ or client IP filters, these are dependent on the IP address. For this reason, you will not want the IP address to change.

6. **Local Domain Name**
   The default setting is “Belkin”. You can set a local domain name (network name) for your network. There is no need to change this setting unless you have a specific advanced need to do so. You can name the network anything you want such as “MY NETWORK”.


(1)
(2)
(3)
(4)
(5)
(6)
BELKIN
Message Manager Utility
Home| Help| Logout Internet Status: Connected
LAN Setup
LAN Settings
DHCP Client List
Internet WAN
Connection Type
DNS
MAC Address
Telephone Setting
VOIP Setting
PSTN Setting
XMSG Setting
ADVANCED Settings
Firewall
Virtual Servers
Client IP Filters
MAC Address Filtering
DMZ
WAN Ping Blocking
STUN SERVER
Utilities
Restart Router
Restore Factory Defaults
Save/Backup Settings
Restore Previous Settings
Firmware Update
System Settings
LAN > LAN Settings
You can make changes to the Local Area Network (LAN) here. For changes to take effect, you must press the "Apply Changes" button at the bottom of the screen.
IP Address > 192 . 168 . 200 . 1
More Info
Subnet Mask > 255 . 255 . 255 . 0
More Info
DHCP server > On Off
The DHCP server function makes setting up a network very easy by assigning IP addresses to each computer on the network. It is not necessary to make any changes here. More Info
IP Pool Starting Address > 192 . 168 . 200 . 2
IP Pool Ending Address > 192 . 168 . 200 . 100
Lease Time > One Day
The length of time the DHCP server will reserve the IP address for each computer.
Apply Changes

Configuring the Firewall

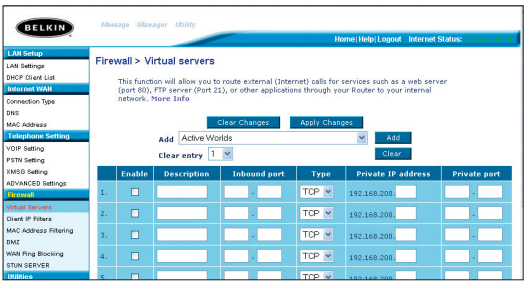
Your Message Manager is equipped with a firewall that will protect your network from a wide array of common hacker attacks including:

- IP Spoofing
- SYN flood
- Land Attack
- UDP flooding
- Ping of Death (PoD)
- Tear Drop Attack
- Denial of Service (DoS)
- ICMP defect
- IP with zero length
- RIP defect
- Smurf Attack
- Fragment flooding
- TCP Null Scan

The firewall also masks common ports that are frequently used to attack networks. These ports appear to be “Stealth”, meaning that for all intents and purposes, they do not exist to a would-be hacker.

Configuring Internal Forwarding Settings

The Virtual Servers function will allow you to route external (Internet) calls for services such as a web server (port 80), FTP server (Port 21), or other applications through your Message Manager to your internal network. Since your internal computers are protected by a firewall, computers outside your network (over the Internet) cannot get to them because they cannot be “seen.” A list of common applications has been provided in case you need to configure the Virtual Server function for a specific application. If your application is not listed, you will need to contact the application vendor to find out which port settings you need.



Choosing an Application

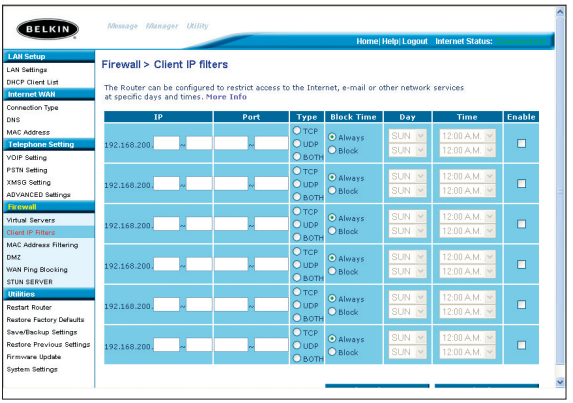
Select your application from the drop-down list. Click “Add”. The settings will be transferred to the next available space in the screen. Click “Apply Changes” to save the setting for that application. To remove an application, select the number of the row that you want to remove then click “Clear”.

Manually Entering Settings into the Virtual Server

To manually enter settings, enter the IP address in the space provided for the internal (server) machine, the port(s) required to pass, select the port type (TCP or UDP), and click “Apply Changes”. Each inbound port entry has two fields with 5 characters maximum per field that allows a start and end port range, e.g. [xxxxx]-[xxxxx]. For each entry, you can enter a single port value by filling in the two fields with the same value (e.g. [7500]-[7500] or a wide range of ports (e.g. [7500]-[9000]). If you need multiple single port value or mixture of ranges and a single value, you must use multiple entries up to the maximum of 20 entries (e.g. 1. [7500]-[7500], 2. [8023]-[8023], 3. [9000]-[9000]). You can only pass one port per internal IP address. Opening ports in your firewall can pose a security risk. You can enable and disable settings very quickly. It is recommended that you disable the settings when you are not using a specific application.

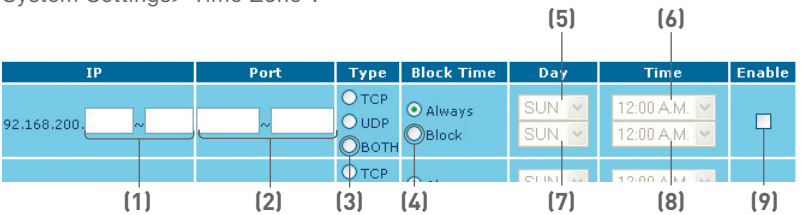
Setting Client IP Filters

The Message Manager can be configured to restrict access to the Internet, e-mail, or other network services at specific days and times. Restriction can be set for a single computer, a range of computers, or multiple computers.



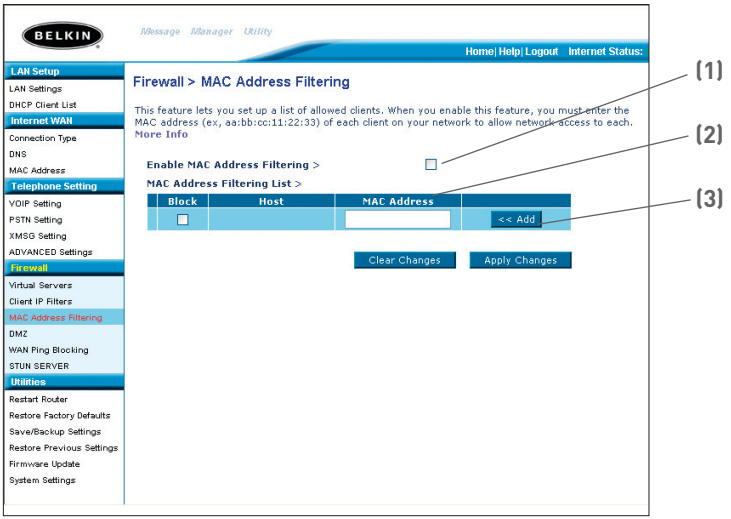
To restrict Internet access to a single computer for example, enter the IP address of the computer you wish to restrict access to in the IP fields **(1)**. Next, enter “80” in both the port fields **(2)**. Select “Both” **(3)**. Select “Block” **(4)**. You can also select “Always” to block access all of the time. Select the day to start on top **(5)**, the time to start on top **(6)**, the day to end on the bottom **(7)**, and the time to stop **(8)** on the bottom. Select “Enable” **(9)**. Click “Apply Changes”. The computer at the IP address you specified will now be blocked from Internet access at the times you specified.

Note: Be sure you have selected the correct time zone under “Utilities> System Settings> Time Zone”.



Setting MAC Address Filtering

The MAC address filter is a powerful security feature that allows you to specify which computers are allowed on the network. Any computer attempting to access the network that is not specified in the filter list will be denied access. When you enable this feature, you must enter the MAC address of each client (computer) on your network to allow network access to each. The “Block” feature lets you turn on and off access to the network easily for any computer without having to add and remove the computer’s MAC address from the list.

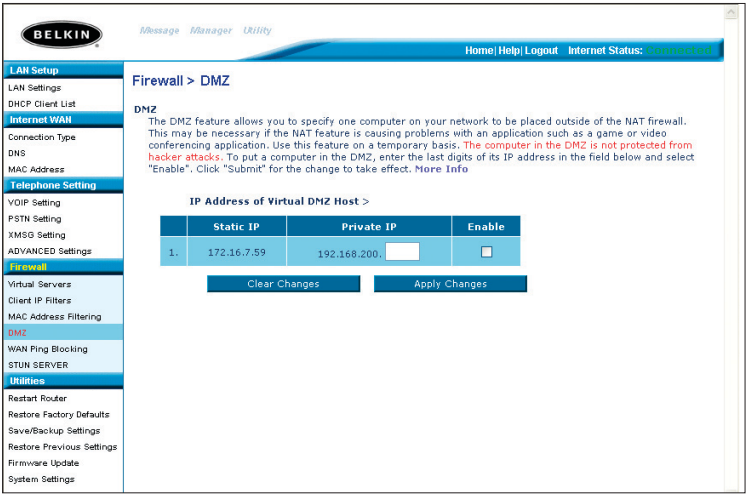


To enable this feature, select “Enable MAC Address Filtering” **(1)**. Next, enter the MAC address of each computer on your network by clicking in the space provided **(2)** and entering the MAC address of the computer you want to add to the list. Click “Add” **(3)**, then “Apply Changes” to save the settings. To delete a MAC address from the list, simply click “Delete” next to the MAC address you wish to delete. Click “Apply Changes” to save the settings.

Note: You will not be able to delete the MAC address of the computer you are using to access the Router’s administrative functions (the computer you are using now).

Enabling the Demilitarized Zone (DMZ)

The DMZ feature allows you to specify one computer on your network to be placed outside of the firewall. This may be necessary if the firewall is causing problems with an application such as a game or video conferencing application. Use this feature on a temporary basis. The computer in the DMZ is NOT protected from hacker attacks.



To put a computer in the DMZ, enter the last digits of its IP address in the IP field and select “Enable”. Click “Apply Changes” for the change to take effect. If you are using multiple static WAN IP addresses, it is possible to select which WAN IP address the DMZ host will be directed to. Type in the WAN IP address you wish the DMZ host to direct to, enter the last two digits of the IP address of the DMZ host computer, select “Enable” and click “Apply Changes”.

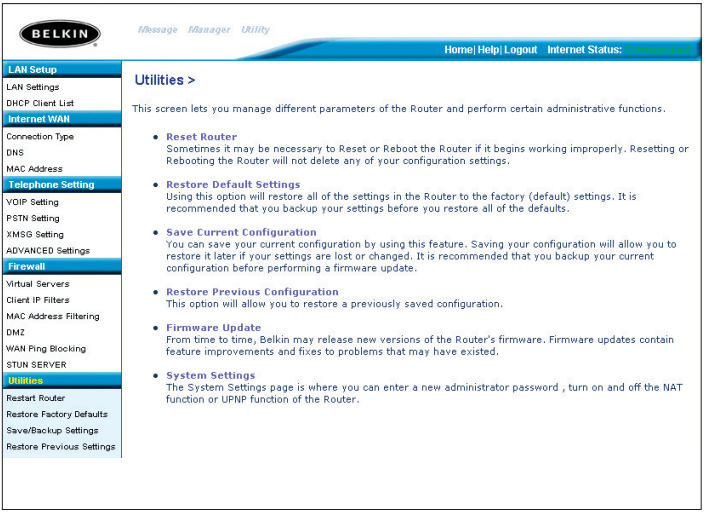
Blocking an ICMP Ping

Computer hackers use what is known as “pinging” to find potential victims on the Internet. By pinging a specific IP address and receiving a response from the IP address, a hacker can determine that something of interest might be there. The Messaging Manager can be set up so it will not respond to an ICMP ping from the outside. This heightens the level of security of your Message Manager.

To turn off the ping response, select “Block ICMP Ping” **(1)** and click “Apply Changes”. The Router will not respond to an ICMP ping.

Utilities Tab

This screen lets you manage different parameters of the Message Manager and perform certain administrative functions.

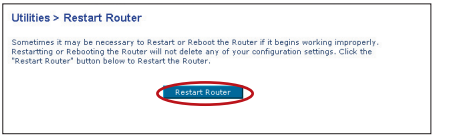


Restarting the Message Manager

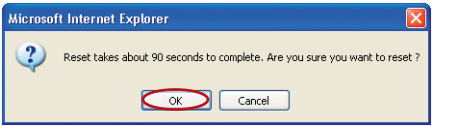
Sometimes it may be necessary to restart or reboot the Message Manager if it begins working improperly. Restarting or rebooting the Message Manager will NOT delete any of your configuration settings.

Restarting the Message Manager to Restore Normal Operation

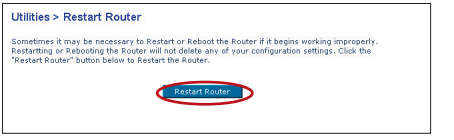
1. Click the "Restart Message Manager" button.



2. The following message will appear. Restarting the Message Manager can take up to 90 seconds. It is important not to turn off the power to the Message Manager during the restart.



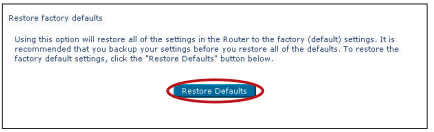
4. A 90-second countdown will appear on the screen. When the countdown reaches zero, the Message Manager will be restarted. The Message Manager home page should appear automatically. If not, type in the Message Manager's address (default = 192.168.200.1) into the navigation bar of your browser.



Restoring Factory Default Settings

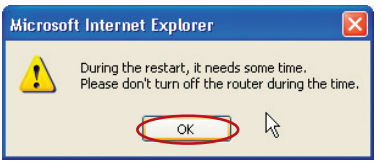
Using this option will restore all of the settings in the Message Manager to the factory (default) settings. It is recommended that you back up your settings before you restore all of the defaults.

1. Click the “Restore Defaults” button.



2. The following message will appear. Click “OK”.

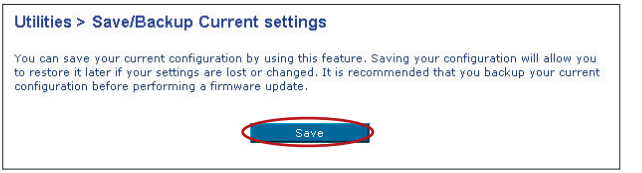
3. The following message will appear. Restoring the defaults includes restarting the Message Manager. It can take up to 90 seconds. It is important not to turn the power to the Message Manager off during the restart.



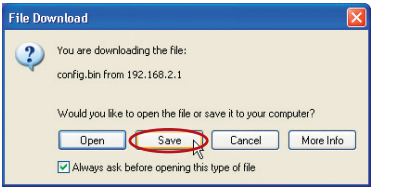
4. A 90-second countdown will appear on the screen. When the countdown reaches zero, the Message Manager’s defaults will be restored. The Message Manager home page should appear automatically. If it does not, type in the Message Manager’s address (default = 192.168.200.1) into the navigation bar of your browser.

Saving a Current Configuration

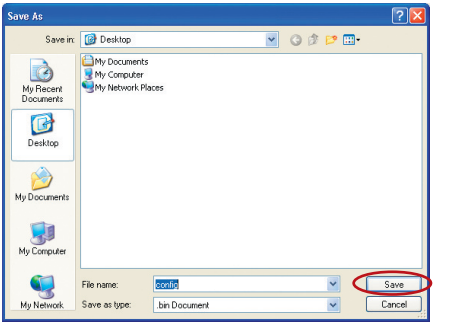
You can save your current configuration by using this feature. Saving your configuration will allow you to restore it later if your settings are lost or changed. It is recommended that you back up your current configuration before performing a firmware update.



1. Click “Save”. A window called “File Download” will open. Click “Save”.

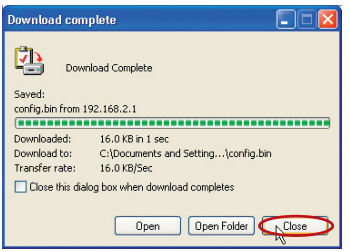


2. A window will open that allows you to select the location where you want to save the configuration file. Select a location. You can name the file anything you want, or use the default name “Config”. Be sure to name the file so you can locate it yourself later. When you have selected the location and name of the file, click “Save”.



3. When the save is complete, you will see the following window. Click “Close”.

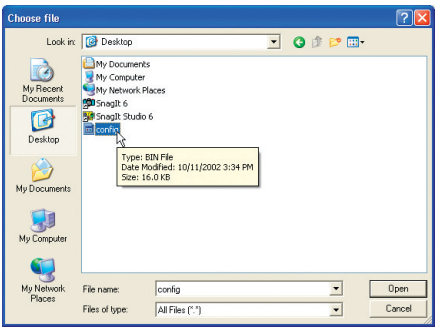
The configuration is now saved.



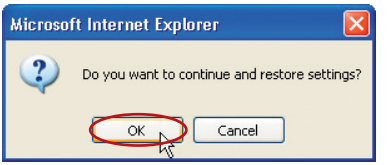
Restoring a Previous Configuration

This option will allow you to restore a previously saved configuration.

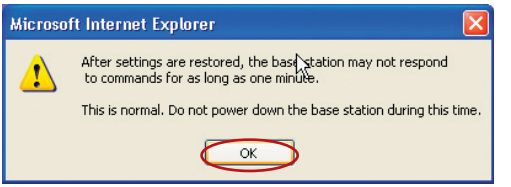
1. Click “Browse”. A window will open that allows you to select the location of the configuration file. All configuration files end with a “.bin”. Locate the configuration file you want to restore and double-click on it.



2. You will be asked if you want to continue. Click “OK”.



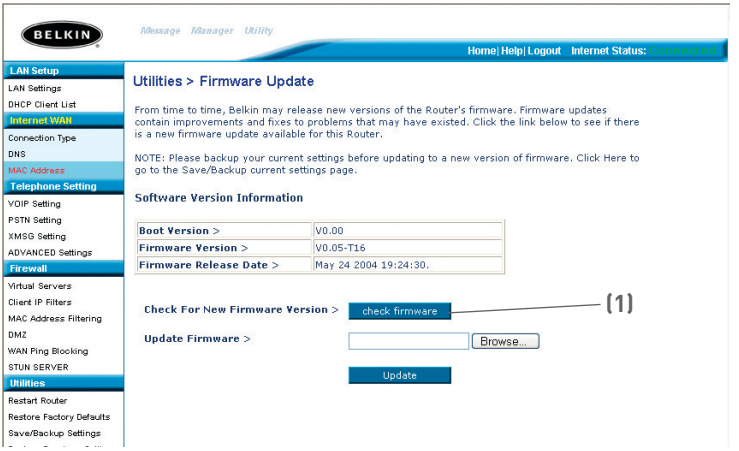
3. A reminder window will appear. It will take up to 60 seconds for the configuration restoration to complete. Click “OK”.



4. A 90-second countdown will appear on the screen. When the countdown reaches zero, the Belkin Message Manager’s configuration will be restored. The Message Manager home page should appear automatically. If not, type in the Message Manager’s address (default = 192.168.200.1) into the navigation bar of your browser.

Updating the Firmware

From time to time, Belkin may release new versions of the Message Manager's firmware. Firmware updates contain feature improvements and fixes to problems that may exist. When Belkin releases new firmware, you can download the firmware from the Belkin update website and update your Message Manager's firmware to the latest version.



Checking for a New Version of Firmware

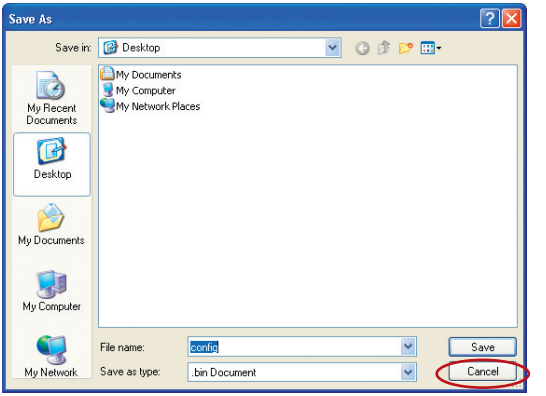
The "Check Firmware" **(1)** button allows you to instantly check for a new version of firmware. When you click the button, a new browser window will appear informing you that either no new firmware is available or that there is a new version available. If a new version is available, you will have the option to download it.

Downloading a New Version of Firmware

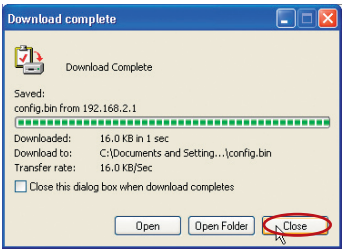
If you click the “Check Firmware” button and a new version of firmware is available, you will see a screen such as the following.

1. To download the new version of firmware, click “Download”.
2. A window will open that allows you to select the location where you want to save the firmware file. Select a location. You can name the file anything you want, or use the default name. Be sure to save the file in a place where you can locate it yourself later.

   Note: We suggest saving this to your desktop to locate the file easily. When you have selected the location, click “Save”.



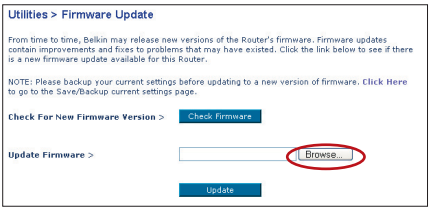
3. When the save is complete, you will see the following window. Click “Close”.



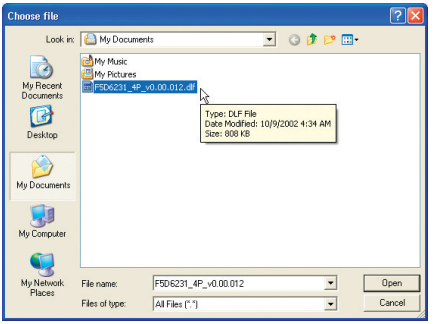
The download of the firmware is complete. To update the firmware, follow the next steps in “Updating the Router’s Firmware”.

Updating the Message Manager’s Firmware

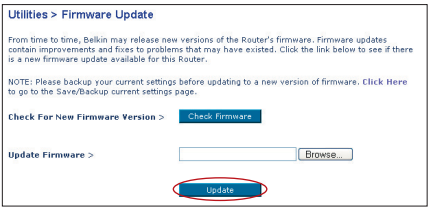
1. In the “Firmware Update” page, click “Browse”. A window will open that allows you to select the location of the firmware update file. All firmware files end with a “.dlf”.



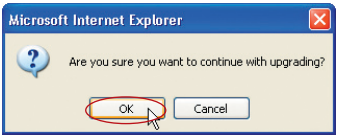
2. Browse to the firmware file you downloaded. Select the file by double-clicking on the file name.



3. The “Update Firmware” box will now display the location and name of the firmware file you just selected. Click “Update”.



4. You will be asked if you are sure you want to continue. Click “OK”.



5. You will see one more message. This message tells you that the Message Manager may not respond for as long as one minute as the firmware is loaded into the Message Manager and the Message Manager is rebooted. Click “OK”.

6. A 90-second countdown will appear on the screen. When the countdown reaches zero, the Message Manager firmware update will be complete. The Message Manager home page should appear automatically. If not, type in the Message Manager’s address (default = 192.168.200.1) into the navigation bar of your browser.

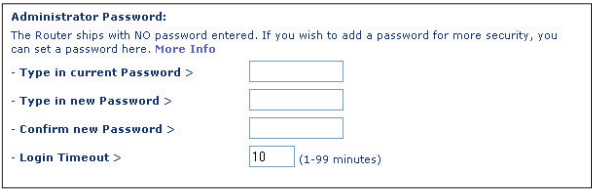
The firmware update is complete!

Changing System Settings

The “System Settings” page is where you can enter a new administrator password, set the time zone, enable remote management, and turn on and off the NAT function of the Message Manager.

Setting or Changing the Administrator Password

The Message Manager ships with NO password entered. If you wish to add a password for greater security, you can set a password here. Write down your password and keep it in a safe place, as you will need it if you need to log into the Message Manager in the future. It is also recommended that you set a password if you plan to use the remote management feature of your Message Manager.



Changing the Login Timeout Setting

The login timeout option allows you to set the period of time that you can be logged into the Message Manager’s advanced setup interface. The timer starts when there has been no activity. For example, you have made some changes in the advanced setup interface, then left your computer alone without clicking “Logout”. Assuming the timeout is set to 10 minutes, then 10 minutes after you leave, the login session will expire. You will have to login to the Message Manager again to make any more changes. The login timeout option is for security purposes and the default is set to 10 minutes.

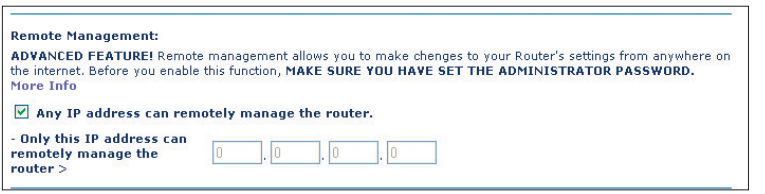
Note: Only one computer can be logged into the Message Manager’s advanced setup interface at one time.

Setting the Time and Time Zone

The Message Manager keeps time by connecting to a Simple Network Time Protocol (SNTP) server. This allows the Message Manager to synchronize the system clock to the global Internet. The synchronized clock in the Message Manager is used to record the security log and control client filtering. Select the time zone that you reside in. If you reside in an area that observes Daylight Saving, then place a check mark in the box next to "Enable Daylight Saving". The system clock may not update immediately. Allow at least 15 minutes for the Message Manager to contact the time servers on the Internet and get a response. You cannot set the clock yourself.

Enabling Remote Management

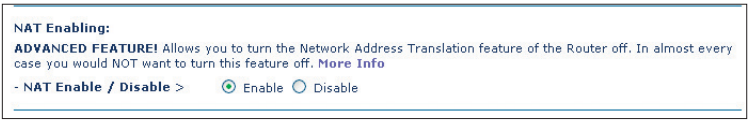
Before you enable this advanced feature of your Belkin Message Manager, **MAKE SURE YOU HAVE SET THE ADMINISTRATOR PASSWORD**. Remote management allows you to make changes to your Message Manager's settings from anywhere on the Internet. There are two methods of remotely managing the Message Manager. The first is to allow access to the Message Manager from anywhere on the Internet by selecting "Any IP address can remotely manage the Message Manager". By typing in your WAN IP address from any computer on the Internet, you will be presented with a login screen where you need to type in the password of your Message Manager. The second method is to allow a specific IP address only to remotely manage the Message Manager. This is more secure, but less convenient. To use this method, enter the IP address you know you will be accessing the Message Manager from in the space provided and select "Only this IP address can remotely manage the Message Manager". Before you enable this function, it is **STRONGLY RECOMMENDED** that you set your administrator password. Leaving the password empty will potentially open your Message Manager to intrusion.



Enabling/Disabling NAT (Network Address Translation)

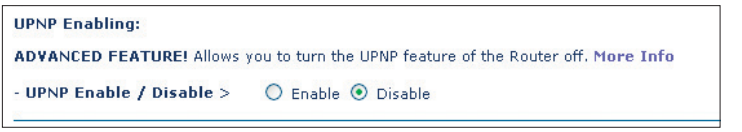
Note: This advanced feature should be employed by advanced users only.

Before enabling this function, **MAKE SURE YOU HAVE SET THE ADMINISTRATOR PASSWORD**. Network Address Translation (NAT) is the method by which the Router shares the single IP address assigned by your ISP with the other computers on your network. This function should only be used if your ISP assigns you multiple IP addresses or you need NAT disabled for an advanced system configuration. If you have a single IP address and you turn NAT off, the computers on your network will not be able to access the Internet. Other problems may also occur. Turning off NAT will disable your firewall functions.



Enabling/Disabling UPnP

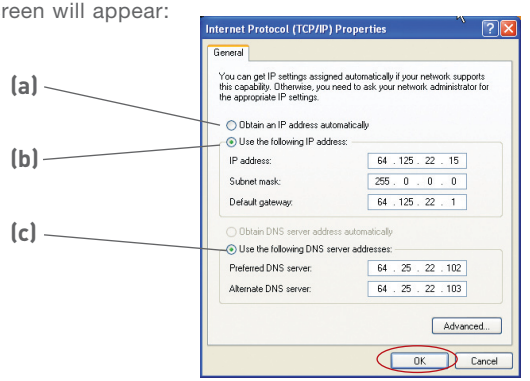
UPnP (Universal Plug-and-Play) is yet another advanced feature offered by your Message Manager. It is a technology that offers seamless operation of voice messaging, video messaging, games, and other applications that are UPnP-compliant. Some applications require the Message Manager's firewall to be configured in a specific way to operate properly. This usually requires opening TCP and UDP ports, and in some instances, setting trigger ports. An application that is UPnP-compliant has the ability to communicate with the Message Manager, basically "telling" the Message Manager which way it needs the firewall configured. The Message Manager ships with the UPnP feature disabled. If you are using any applications that are UPnP-compliant, and wish to take advantage of the UPnP features, you can enable the UPnP feature. Simply select "Enable" in the "UPnP Enabling" section of the "Utilities" page. Click "Apply Changes" to save the change.



Manually Configuring Network Adapters in Windows 2000, NT, or XP

In order for your computer to properly communicate with your Message Manager, you will need to change your PC's TCP/IP settings to DHCP.

1. Click "Start", "Settings", then "Control Panel".
2. Double-click on the "Network and dial-up connections" icon (Windows 2000) or the "Network" icon (Windows XP).
3. Right-click on the "Local Area Connection" associated with your network adapter and select "Properties" from the drop-down menu.
4. In the "Local Area Connection Properties" window, click "Internet Protocol (TCP/IP)" and click the "Properties" button. The following screen will appear:



5. If "Use the following IP address" **(b)** is selected, your Message Manager will need to be set up for a static IP connection type. Write the address information the table below. You will need to enter this information into the Belkin Message Manager.

IP address:	
Subnet Mask:	
Default gateway:	
Preferred DNS server:	
Alternate DNS server:	

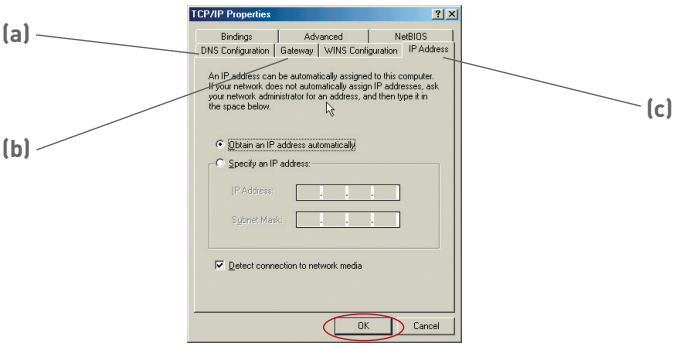
6. If not already selected, select "Obtain an IP address automatically" **(a)** and "Obtain DNS server address automatically" **(c)**. Click "OK".

Your network adapter(s) are now configured for use with the Belkin Message Manager.

Manually Configuring Computer Network Settings

Manually Configuring Network Adapters in Windows 98SE or Me

1. Right-click on “My Network Neighborhood” and select “Properties” from the drop-down menu.
2. Select “TCP/IP -> settings” for your installed network adapter. You will see the following window.



3. If “Specify and IP address” is selected, your Message Manager will need to be set up for a static IP connection type. Write the address information in the table below. You will need to enter this information into the Message Manager.

IP address:	
Subnet Mask:	
Default gateway:	
Preferred DNS server:	
Alternate DNS server:	

4. Write the IP address and subnet mask from the “IP Address” tab **(c)**.
5. Click the “Gateway” tab **(b)**. Write the gateway address down in the chart.
6. Click the “DNS Configuration” tab **(a)**. Write the DNS address(es) in the chart.
7. If not already selected, select “Obtain IP address automatically” on the IP address tab. Click “OK”.

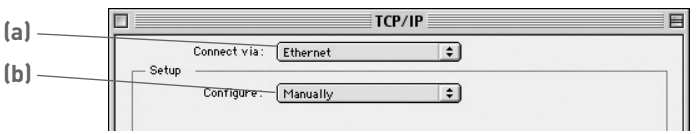
Restart the computer. When the computer restarts, your network adapter(s) are now configured for use with the Message Manager.

Set up the computer that is connected to the cable or DSL modem FIRST using these steps. You can also use these steps to add computers to your Message Manager after the Message Manager has been set up to connect to the Internet.

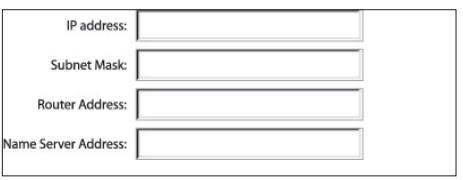
Manually Configuring Network Adapters in Mac OS® up to 9.x

In order for your computer to properly communicate with your Message Manager, you will need to change your Mac's TCP/IP settings to DHCP.

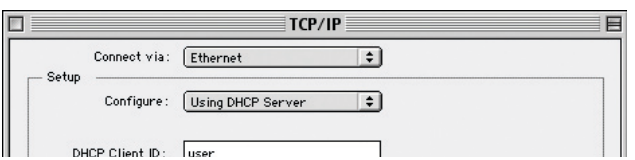
1. Pull down the Apple menu. Select "Control Panels" and select "TCP/IP".
2. You will see the TCP/IP control panel. Select "Ethernet Built-In" or "Ethernet" in the "Connect via:" drop-down menu **(a)**.



3. Next to "Configure" **(b)**, if "Manually" is selected, your Message Manager will need to be set up for a static IP connection type. Write the address information in the table below. You will need to enter this information into the Message Manager.



4. If not already set, at "Configure:", choose "Using DHCP Server". This will tell the computer to obtain an IP address from the Message Manager.



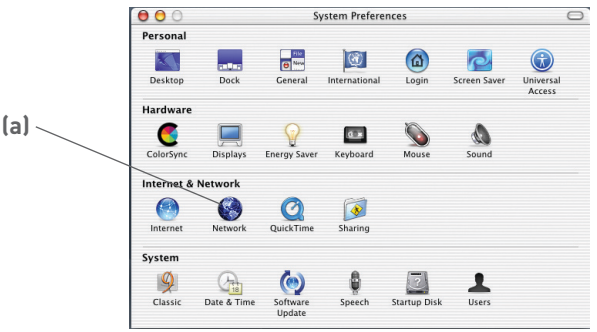
5. Close the window. If you made any changes, the following window will appear. Click “Save”.

Restart the computer. When the computer restarts, your network settings are now configured for use with the Message Manager.

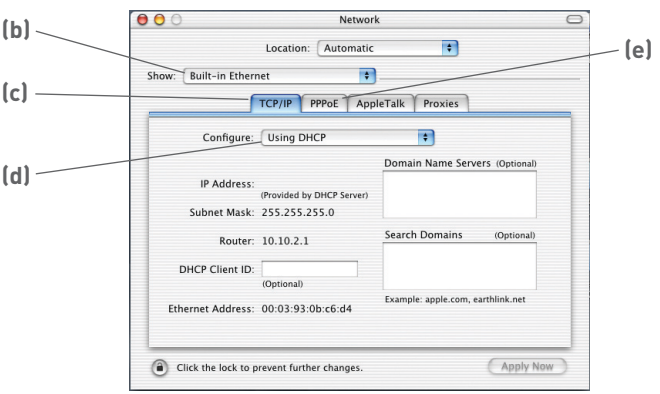
Manually Configuring Network Adapters in Mac OS X

1. Click on the “System Preferences” icon.

2. Select “Network” **(a)** from the “System Preferences” menu.

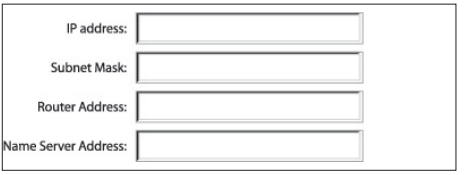


3. Select “Built-in Ethernet” **(b)** next to “Show” in the Network menu.



4. Select the “TCP/IP” tab **(c)**. Next to “Configure” **(d)**, you should see “Manually” or “Using DHCP”. If you do not, check the PPPoE tab **(e)** to make sure that “Connect using PPPoE” is NOT selected. If it is, you will need to configure your Message Manager for a PPPoE connection type using your user name and password.

5. If “Manually” is selected, your Message Manager will need to be set up for a static IP connection type. Write the address information in the table below. You will need to enter this information into the Message Manager.



6. If not already selected, select “Using DHCP” next to “Configure” **(d)**, then click “Apply Now”.

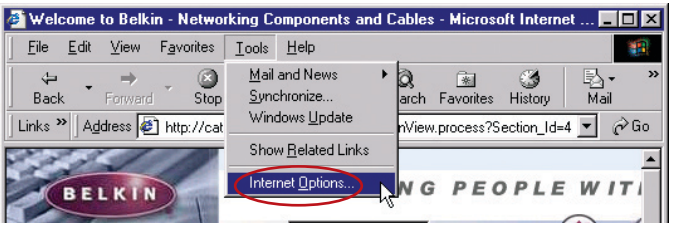
Your network adapter(s) are now configured for use with the Message Manager.

Recommended Web Browser Settings

In most cases, you will not need to make any changes to your web browser's settings. If you are having trouble accessing the Internet or the advanced web-based user interface, then change your browser's settings to the recommended settings in this section.

Internet Explorer 4.0 or Higher

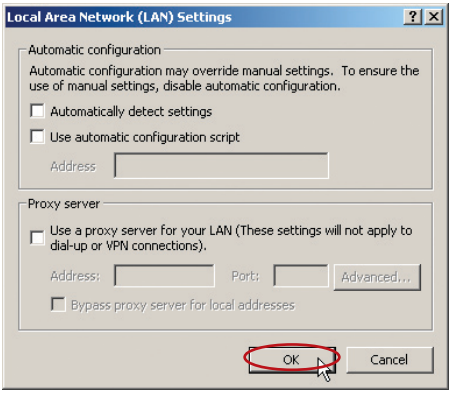
1. Start your web browser. Select "Tools" then "Internet Options".



2. In the "Internet Options" screen, there are three selections: "Never dial a connection", "Dial whenever a network connection is not present", and "Always dial my default connection". If you can make a selection, select "Never dial a connection". If you cannot make a selection, go to the next step.

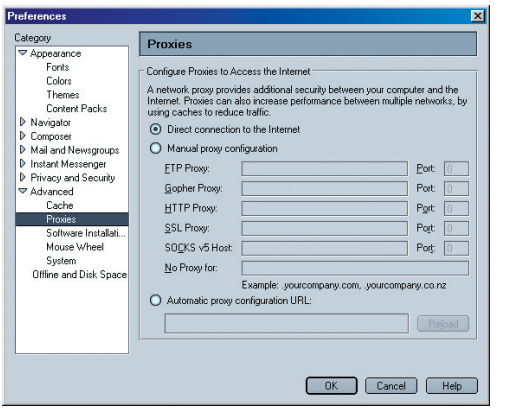
3. Under the "Internet Options" screen, click on "Connections" and select "LAN Settings...".

4. Make sure there are no check marks next to any of the displayed options: “Automatically detect settings”, “Use automatic configuration script”, and “Use a proxy server”. Click “OK”. Then click “OK” again in the “Internet Options” page.



Netscape Navigator 4.0 or Higher

1. Start Netscape. Click on “Edit” then “Preferences”.
2. In the “Preferences” window, click on “Advanced” then select “Proxies”. In the “Proxies” window, select “Direct connection to the Internet”.



How to set up your network to operate with AOL® for Broadband and your new Belkin Message Manager

There are two types of AOL connections available—either AOL DSL or AOL Cable. A third service is called AOL BYOA (Bring Your Own Access). This is used along with an existing broadband connection, supplied by your Internet Service Provider (ISP). If you have AOL DSL, please refer to "Directions for AOL DSL Users" below for setup instructions. If you have either AOL Cable or the AOL BYOA service, please go to the "Directions for AOL Cable Users" section of this guide, on page 102.

Directions for AOL DSL Users

STEP 1: Create AOL screen names for the Belkin Message Manager and for each computer that will be using your AOL service.

STEP 2: Configure the Message Manager for AOL for Broadband.

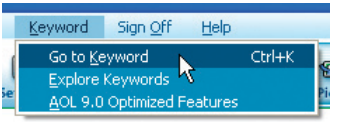
STEP 3: Configure your computers with the new AOL screen names you just created.

Step 1 | Creating new AOL screen names

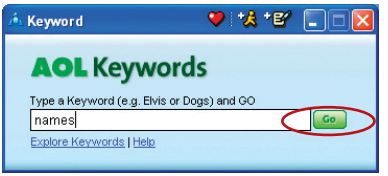
Note: Your AOL connections must be set to operate on the TCP/IP standard. If you have designated another protocol, reset them to TCP/IP before proceeding.

1. If your Message Manager is currently connected to the network, remove it from the network and connect it directly to your broadband modem. Then, log on to AOL as you normally do.
2. Log on to your AOL master account.

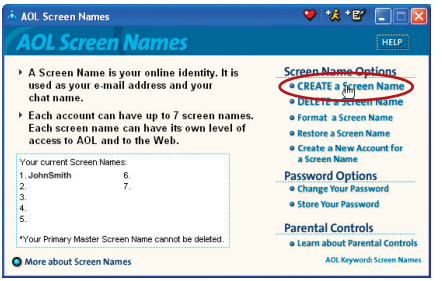
3. Perform a keyword search on “names” by clicking “Keyword”, and then “Go to Keyword”.



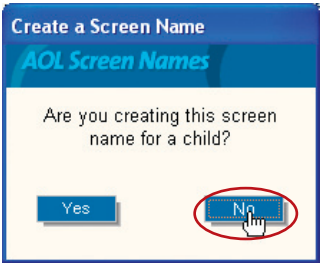
4. In the “Keyword” window, type in “names” then click “Go”.



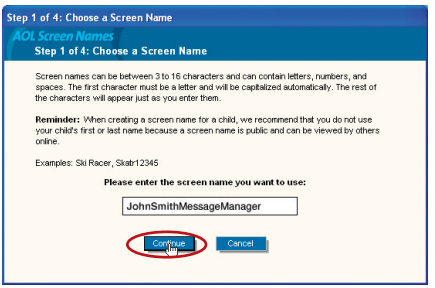
5. You will see the “AOL Screen Names” window. Click “CREATE a Screen Name”.



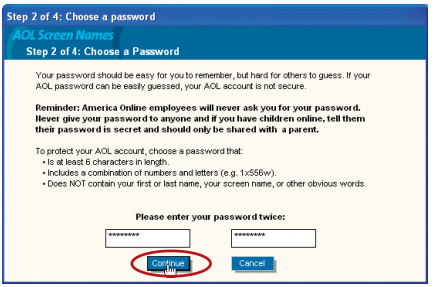
6. A window will appear that asks whether the screen name is for a child. If you are creating the screen name for the Message Manager, click “Yes” or “No” (it doesn’t matter which you select). If you are creating a screen name for an additional computer, select the appropriate answer.



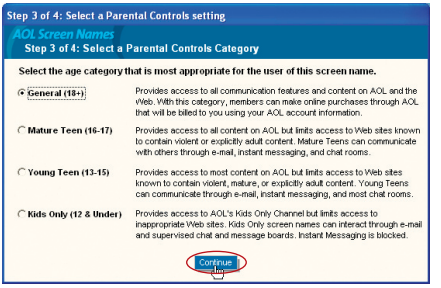
7. The “Choose a Screen Name” window will appear. Type in a screen name, and click “Continue”. If this screen name is for the Message Manager, the name you choose should be something like your master screen name followed by the word Message Manager. For instance “JohnSmithMessage Manager”. If the screen name is for a computer, type in the screen name of the computer for which you are creating this screen name. Click “Continue”.



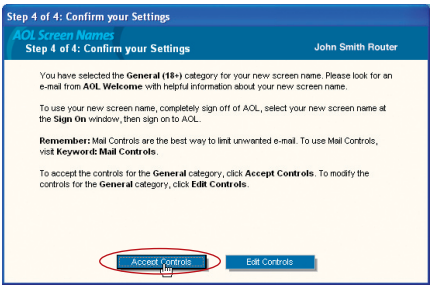
8. The “Choose a password” screen will appear. Enter the password for this screen name twice, and click “Continue”.



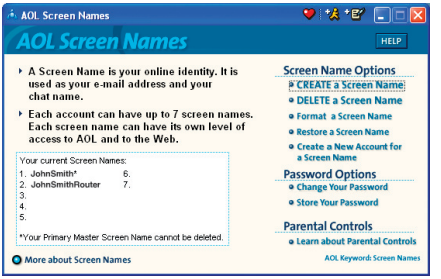
9. The "Select a Parental Controls setting" window will appear. If this screen name is for the Message Manager, choose any one of the settings (it doesn't matter which). If this screen name is for a computer, choose the desired setting and click "Continue".



10. The "Confirm your Settings" window will appear. Select "Accept Controls".



11. The "AOL Screen Names" window appears. This window will include all the screen names you have created to this point.

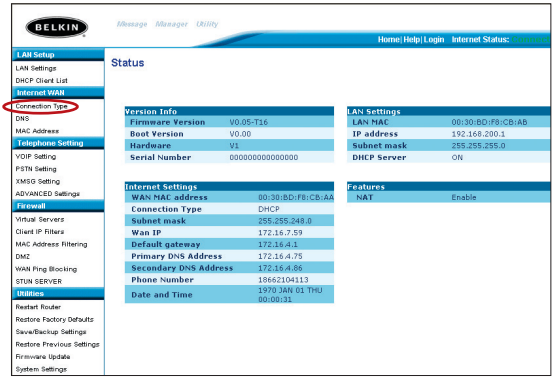


12. Repeat steps 1-11 to add an additional screen name for each computer that will be using AOL and that will be connected to the Message Manager. When you are finished adding screen names, go to Step 2.

Step 2 | Configuring the Message Manager

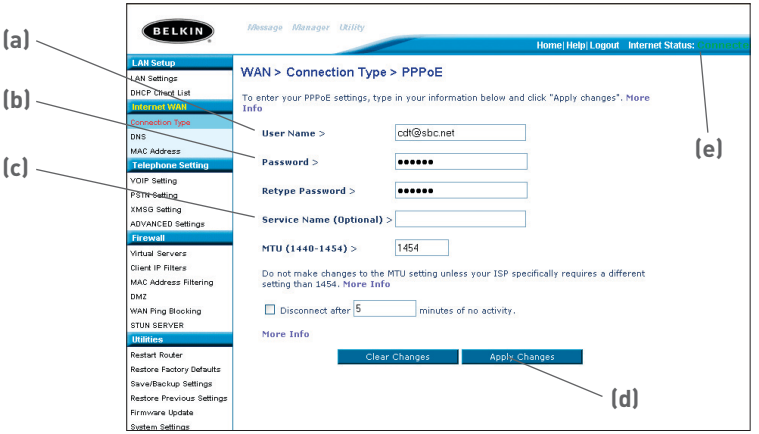
Follow this step only if you use AOL DSL.

1. Connect your Message Manager to your network per the instructions in your User Manual.
2. Open your Web browser.
3. In the address bar of your browser, type http://192.168.200.1 and click “Go”. You will be directed to the Message Manager’s home page. Click on “Connection Type” in the left-hand column under “Internet WAN” heading.
4. You will see the Message Manager’s login page. Leave the password field blank and click “Submit”.
5. You will now see the “Connection Type” page. Select “PPPoE” and click “Next”. You will now see the PPPoE setup page.



6. In the “User Name” field, type in the screen name that you created for your Message Manager **(a)**.

7. In the password fields, type in the password you created for the Message Manager's screen name **(b)**.

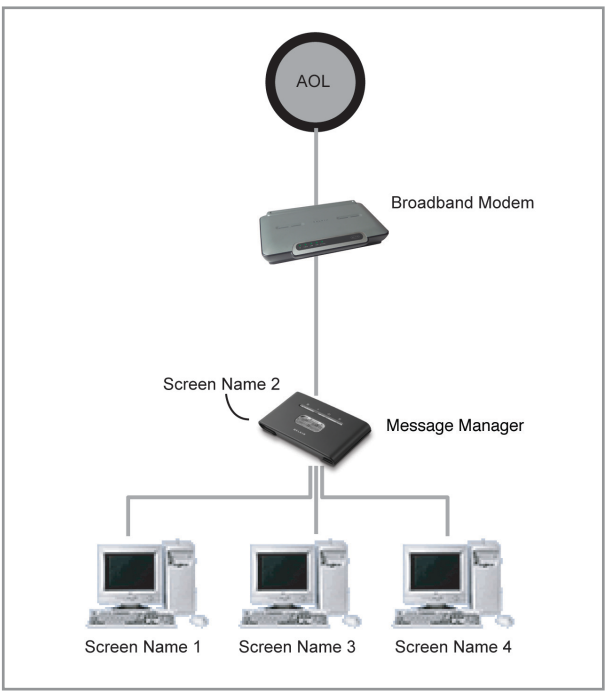


8. Leave the "Service Name" field blank **(c)**. Do not change the MTU setting.
9. Click on "Apply Changes" **(d)**.
10. Click on the Home link at the top of the screen. The Internet Status indicator should read "Connected" **(e)**.
11. Go to Step 3.

Step 3 | Configure your computers with the AOL screen names you just created

This step consists of installing the AOL software on each computer and configuring it to use one of the screen names you created in Step 1. Remember that each computer MUST use a different screen name. For help installing and configuring the AOL software, contact AOL's technical support department.

Network Configuration



AOL Cable or AOL BYOA (Bring Your Own Access) Users Directions

AOL Cable users need to follow these directions. If you have AOL DSL, go to the "Directions for AOL DSL" section.

AOL Cable Users STEP 1:
Create AOL screen names for each computer that will be using your AOL service.

AOL DSL Users STEP 2:
Configure your computers with the new AOL screen names you just created.

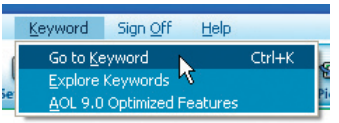
AOL Cable or AOL BYOA Users

Step 1 | Creating new AOL screen names

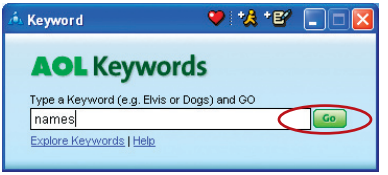
Note: Your AOL connections must be set to operate on the TCP/IP standard. If you have designated another protocol, reset them to TCP/IP before proceeding.

1. Connect the Message Manager to the network per the instructions in your User Manual. Once the Message Manager is installed properly, go to the next step.
2. Log on to your AOL master account.

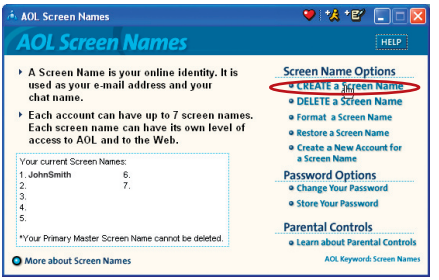
3. Perform a keyword search on "names" by clicking "Keyword", and then "Go to Keyword".



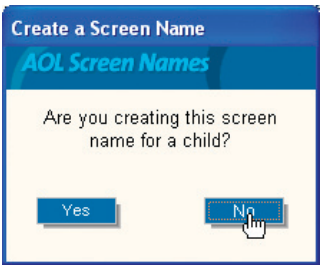
4. In the "Keyword" window, type in "names" then click "Go".



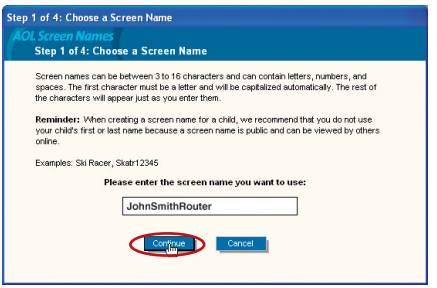
5. You should see the "AOL Screen Names" window. Click "CREATE a Screen Name".



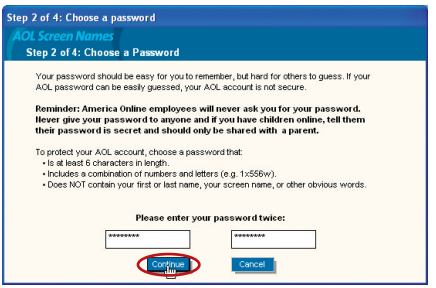
6. A window will appear that asks whether the screen name is for a child. Click "Yes" or "No" to answer.



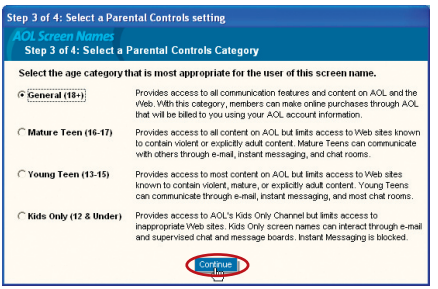
7. The "Choose a Screen Name" window will appear. Type in the screen name of the computer for which you are creating this screen name. Click "Continue".



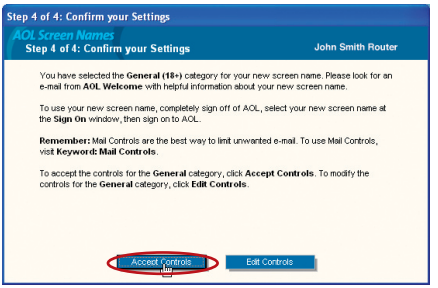
8. The “Choose a password” screen will appear. Enter the password for this screen name twice, and click “Continue”.



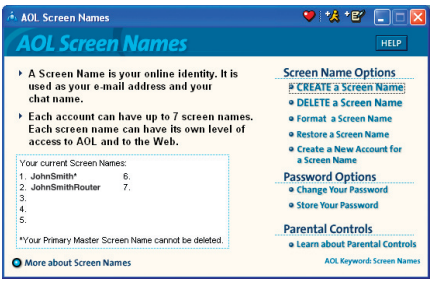
9. The “Select a Parental Controls setting” window will appear. Choose the appropriate setting for this screen name. Click “Continue”.



10. The “Confirm your Settings” window will appear. Select “Accept Controls”.



11. The “AOL Screen Names” window appears. This window will include all the accounts you have created to this point.

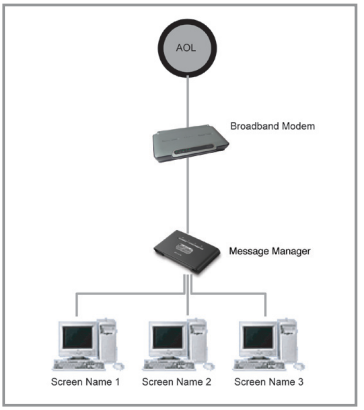


12. Repeat steps 1-11 for each computer that will be using AOL and that will be connected to your Belkin Message Manager. When you are finished adding screen names, go to Step 2.

Step 2 | Configure your computers with the new AOL screen names you just created

This step consists of installing the AOL software on each computer and configuring it to use one of the screen names you created in Step 1. Remember that each computer MUST use a different screen name. For help installing and configuring the AOL software, contact AOL’s technical support department.

Network Configuration



Problem:

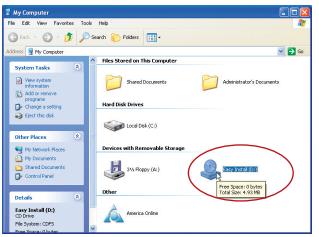
EZ Install CD does not automatically start

Solution:

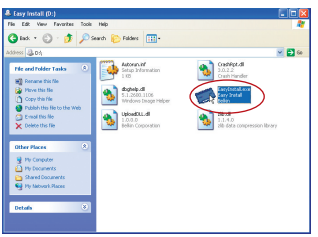
If the CD-ROM does not start the Easy Install Wizard automatically, it could be that the computer is running other applications that are interfering with the CD drive.

1. If the Easy Install Wizard screen does not appear within 15-20 seconds, open up your CD-ROM drive by double clicking on the "My Computer" icon that is located on your desktop.
2. Next, double-click on the CD-ROM drive that the Easy Installation CD has been placed in to start the installation.

3. Easy Install should start within a few seconds If, instead, a window appears showing the files on the CD, double-click on the icon labeled "EasyInstall.exe".



4. If the Easy Install Wizard is still does not start, reference the section titled "Manually Configuring Network Settings".



Problem:

Easy Install Wizard cannot find my Message Manager

Solution:

If the Easy Install Wizard is not able to find the Message Manager during the installation process your Message Manager may not be connected properly.

1. The Easy Install Wizard must be run from the computer that is connected to the Belkin Message Manager.
2. Make sure that the Belkin Message Manager is ON; the Power LED will be green and solid.
3. Make sure the LAN link light that corresponds to the port you connected to the computer is ON; check the network cable going from the computer to the Belkin Message Manager is in one of the four computer ports and not in the Internet port.

   If the Easy Install Wizard is still unable to find the Message Manager, reference the section Alternative Setup Method for installation steps on page 18 of this manual.

Problem:

Easy Install Wizard cannot connect my Belkin Message Manager to the Internet

Solution:

If the Easy Install Wizard is not able to connect the Belkin Message Manager to the Internet or the Connected light is blinking, your modem may not be connected properly or your ISP may require a user name and password.

1. The Easy Install Wizard must be run from the computer that is connected to the Belkin Message Manager. Make sure that both the Belkin Message Manager and the modem that is connected to the Belkin Message Manager is ON.
2. If your ISP requires a user name and password, make sure that you have typed in your user name and password correctly. Some user names require that the ISP's domain be at the end of the name. Example myname@myisp.com. The "@myisp.com" part of the user name may need to be typed as well as your user name.

   If the connected light continues to blink and you have no Internet connection try the Alternative Setup Method on page 18 of this manual.

   Note: Verify that your Internet connection is working before running the Easy Install Wizard by connecting your PC to your Modem and opening a web browser.

Problem:

- Belkin Message Manager is not working
- LEDs do not come on

Solution:

If the LED indicators are not ON, the problem may be that the Belkin Message Manager is not connected properly.

- Verify that the Belkin Message Manager is plugged into a power source. Check to see that the cables are connected to the correct ports and that they are secure.

Problem:

- Belkin Message Manager cannot connect to the modem
- WAN light does not come on

Solution:

If your Belkin Message Manager appears to be functioning properly but the WAN light is not green, the problem may be that your modem and Message Manager are not connected properly.

- Make sure the network cable between the modem and the Message Manager is connected to the Message Manager's WAN port and that the cable is firmly secure in place. Power off the modem for a few seconds and power it on again.

Problem:

- Cannot connect to the Internet
- Connected light is blinking

Solution:

If your Belkin Message Manager appears to be functioning properly but you cannot connect to the Internet or the connected light is blinking, the problem may be that your connection type may not match the ISP's connection.

- If you have a "static IP address" connection, your ISP must assign you the IP address, subnet mask, and gateway address. Make sure that the Belkin Message Manager's connection type is configured as "Static IP Address" and verify your settings.
- If you have a "dynamic IP address" connection, make sure that the Belkin Message Manager's connection type is configured as "Dynamic IP Address."
- If you have a "PPPoE" connection, your ISP will assign you a user name and password and sometimes a service name. Make sure the Belkin Message Manager connection type is configured to PPPoE and the settings are entered properly.

  Note: To check your Belkin Message Manager's connection type settings, open a web browser and type 192.168.200.1 in the address bar to enter the Belkin Message Manager's setup homepage. Click on "Connection Type" from the "Internet Settings" selections.

Problem:

- My connection type is “static IP address”
- I cannot connect to the internet

Solution:

1. Since your connection type is “static IP address”, your ISP must assign you the IP address, subnet mask, and gateway address. Make sure that the Belkin Message Manager’s connection type is configured as “Static IP Address” and verify your settings.
2. Your ISP may bind your connection to the MAC address of your computer’s NIC. Clone your MAC address.

Problem:

- My connection type is “dynamic IP address”
- I cannot connect to the internet

Solution:

1. Make sure your computers are correctly configured and all network cables are properly connected.
2. Make sure the cable or DSL line is properly attached on your cable or DSL modem. Refer to the manual of your modem to verify that it works normally.
3. Make sure the network cable between the modem and the barricade is well connected. Power off the modem; wait a few seconds and then power it on again.
4. Your ISP may bind your connection to the MAC address of your computer’s NIC. Clone your MAC address.

Problem:

- My connection type is “PPPoE IP address”
- I cannot connect to the internet

Solution:

1. Since your connection type is PPPoE, your ISP will assign you a user name password and sometimes a service name. Make sure the Belkin Message Manager connection type is configured as “PPPoE” and these settings are entered properly.
2. Make sure your computers are correctly configured and all network cables are properly connected.
3. Make sure the coaxial cable or DSL line is properly attached on your cable or DSL modem. Refer to the manual of your modem to verify it works normally.
4. Make sure the network cable between the modem and the Belkin Message Manager is well connected. Power off the modem for a few seconds and power on it again.
5. Your ISP may bind your connection to the MAC address of your computer’s NIC. Clone your MAC address.

Technical Support

You can find technical support information at **http://www.everywhere.net** or **www.belkin.com** through the tech support area. If you want to contact technical support by phone, please call **888-542-2207**

FCC Statement

DECLARATION OF CONFORMITY WITH FCC RULES FOR ELECTROMAGNETIC COMPATIBILITY

We, Belkin Corporation, of 501 West Walnut Street, Compton, CA 90220, declare under our sole responsibility that the product,

F1PG111EN

to which this declaration relates,
complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution: Exposure to Radio Frequency Radiation.
The radiated output power of this device is far below the FCC radio frequency exposure limits. Nevertheless, the device shall be used in such manner that the potential for human contact normal operation is minimized.

When connecting an external antenna to the device, the antenna shall be placed in such a manner to minimize the potential for human contact during normal operation. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

Federal Communications Commission Notice
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses, and can radiate radio frequency energy. If not installed and used in accordance with the instructions, it may cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and the receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Modifications
The FCC requires the user to be notified that any changes or modifications to this device that are not expressly approved by Belkin Corporation may void the users authority to operate the equipment.

Canada-Industry Canada (IC)
The wireless radio of this device complies with RSS 139 & RSS 210 Industry Canada. This Class B digital complies with Canadian ICES-003.

Cet appareil numérique de la classe B conforme á la norme NMB-003 du Canada.

Europe-European Union Notice
Radio products with the CE 0682 or CE alert marking comply with the R&TTE Directive (1995/5/EC) issued by the Commission of the European Community.

Compliance with this directive implies conformity to the following European Norms (in brackets are the equivalent international standards).

- EN 60950 (IEC60950) – Product Safety
- EN 300 328 Technical requirement for radio equipment
- ETS 300 826 General EMC requirements for radio equipment.

To determine the type of transmitter, check the identification label on your Belkin product.

Products with the CE marking comply with the EMC Directive (89/336/EEC) and the Low Voltage Directive (72/23/EEC) issued by the Commission of the European Community. Compliance with these directives implies conformity to the following European Norms (in brackets are the equivalent international standards).

- EN 55022 (CISPR 22) – Electromagnetic Interference
- EN 55024 (IEC61000-4-2,3,4,5,6,8,11) – Electromagnetic Immunity
- EN 61000-3-2 (IEC610000-3-2) – Power Line Harmonics
- EN 61000-3-3 (IEC610000) – Power Line Flicker
- EN 60950 (IEC60950) – Product Safety

Products that contain the radio transmitter are labeled with CE 0682 or CE alert marking and may also carry the CE logo.

Belkin Corporation Limited Lifetime Product Warranty

Belkin Corporation warrants this product against defects in materials and workmanship for its lifetime. If a defect is discovered, Belkin will, at its option, repair or replace the product at no charge provided it is returned during the warranty period, with transportation charges prepaid, to the authorized Belkin dealer from whom you purchased the product. Proof of purchase may be required.

This warranty does not apply if the product has been damaged by accident, abuse, misuse, or misapplication; if the product has been modified without the written permission of Belkin; or if any Belkin serial number has been removed or defaced.

THE WARRANTY AND REMEDIES SET FORTH ABOVE ARE EXCLUSIVE IN LIEU OF ALL OTHERS, WHETHER ORAL OR WRITTEN, EXPRESSED OR IMPLIED. BELKIN SPECIFICALLY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

No Belkin dealer, agent, or employee is authorized to make any modification, extension, or addition to this warranty.

BELKIN IS NOT RESPONSIBLE FOR SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES RESULTING FROM ANY BREACH OF WARRANTY, OR UNDER ANY OTHER LEGAL THEORY, INCLUDING BUT NOT LIMITED TO, LOST PROFITS, DOWNTIME, GOODWILL, DAMAGE TO OR REPROGRAMMING OR REPRODUCING ANY PROGRAM OR DATA STORED IN, OR USED WITH, BELKIN PRODUCTS.

Some states do not allow the exclusion or limitation of incidental or consequential damages or exclusions of implied warranties, so the above limitations of exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from state to state.

BELKIN® | Message Manager

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